Content Index

1. About This Manual **2**

2. Introduction **3**

2.1 RoHS requirement *3*

2.2 Safety Notice *3*

2.3 General Description *4*

2.4 Related service information *4*

3. Product Overview **6**

3.1 Monitor Specifications *6*

3.2 Input Signal Connector *7*

3.3 Factory Preset Display Modes *8*

3.4 Panel Specification *9*

4 Disassembly /Assembly **11**

4.1 Three angles’ view *11*

4.2 Exploded View *12*

4.3 Disassembly *13*

5. Cosmetic / Appearance / Alignment Service **17**

5.1 Software/Firmware Upgrade Process *17*

5.2 Adjustment / Alignment Procedure *19*

5.3 White-Balance, Luminance Adjustment *28*

6 Circuit Board and Standard Parts Replacement **30**

6.1 Electrical Block Diagram *30*

6.2 Troubleshooting Guide *32*

6.3 Circuit operation theory *39*

6.4 BOM List *41*

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1. About This Manual

This Service Manual is issued by engineer of TPV customer service according to the structure and capability of various models. The purpose of Service Manual is to provide a guide line to engineers to repair different models. The appearance and capability is introduced in this Service Manual. It is better for repair engineer to have a rough idea of this model through reading the Service Manual. Please do pay attention to the item part of THE DISASSEMBLY when repair the machine and also do the protection of Panel any time. When repairing the circuit board, please follow the requirement of RoHS and refer to the circuit diagram and repairing process that attached in the Service Manual. The method of firmware updated, the way of using the menu and some information that may be used when repairing are also attached in the Service Manual that provide repair engineer various choice.

If you have any questions, please contact with the engineers of TPV customer service.

Service Manual

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COLOR MONITOR

MODEL ID G2200W (China)

1st Edition

Feb. 2008

2. Introduction

2.1 RoHS requirement

Overview

-Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) Directive 2002/95/EC is published in the Official Journal 13 February 2003 (OJ L37, 13.2.2003, p.19).

-Purpose: Reduction of the environmental and health risks posed by hazardous materials in EEE.

-It is complementary to & running in parallel with the WEEE Directive.

-Transposed into national law by 13 August 2004. And comes into effect 1 July 2006.It is similar to the WEEE Directive, except:

Applies to new EEE placed on the market after 1 July 2006.

Includes household filament light bulbs & luminaries.

Excludes: Medical devices or monitoring & control equipment (WEEE categories 8 & 9),Spare parts for the repair of EEE placed on the market before 1 July 2006; Re-used EEE originally placed on the market before 1 July 2006.

2.2 Safety Notice

FCC Notice

FCC Class B Radio Frequency Interference Statement WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

NOTICE :

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

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Power Safety

1.The AC plug isolates this equipment from the AC supply.

2.The power supply cord serves as a power disconnect device for pluggable equipment. The socket outlet should be installed near the equipment and be easily accessible.

3.This product should be operated from the type of power indicated on the marked label. If you are not sure of the type of power available, consult your dealer or local power company.

2.3 General Description

This new LCD (Liquid Crystal Display) monitor BenQ G2200W offers numerous features and functions, for example:

● TFT display (Thin Film Transistor; active matrix)
● minimal space requirements thanks to slim casing
● optimum ergonomic characteristics (totally distortion-free, excellent picture definition and colour purity right into the corners)
● high degree of brightness and good contrast
● high resolution (1680x1050)
● presentation of up to 16.7 million colours (in conjunction with an appropriate graphics card)
● automatic scanning of horizontal frequencies from 31 to 83 kHz and refresh rates (vertical frequencies) from 55 to 76 Hz (absolutely flicker-free)
● digital screen controller with microprocessor for storing 22 different display modes
● freely adjustable colour alignment for matching the screen colours to the colours of various input and output devices
● convenient operation via integrated OSD (On-Screen-display) menu
● VESA-DDC compatibility
● plug&play capability
● power management for reducing power consumption when the computer is not in use
● compliance with the recommendations in accordance with TCO’03

This operating manual contains important information you require to start up and run your LCD monitor.

A graphics card (screen controller) with VGA interface or a digital graphics card with DVI interface is required to control the BenQ G2200W LCD monitor. The monitor processes the data supplied to it by the screen controller. The screen controller or the associated driver software is responsible for setting the modes (resolution and refresh rate).

Additional information

Due to the nature of liquid crystal display (LCD) technology, the picture resolution is always fixed. For the best display performance, please set the display resolution to 1680x1050 pixels with an aspect ratio of 16:10. This is called “Native Resolution” or maximal resolution – that is, the clearest picture. Lower resolutions are displayed on a full screen through an interpolation circuit. Image blurring across pixel boundaries can occur with the interpolated resolution depending upon the image type and its initial resolution.

2.4 Related service information

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold

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with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.

- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or use an adapter to ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightning storm or when it will not be used for long periods of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.
- For use only with the attached power adapter (Output 12V DC) which have UL,CSA listed license(Only for monitors with power adapter).

Since the equipment is compatible with RoHS Directive, use components in which the use of specific chemically noxious substances is restricted; use only designated spare parts when it is necessary to replace such parts with new parts.

Use lead-free solder for the equipment compatible with ones with substrates on which lead-free components are mounted. For the details, refer to “Caution for Lead-Free Soldering Work” given in the next page.
It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment.

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3. Product Overview

3.1 Monitor Specifications

LCD Panel	Driving system	TFT Color LCD
	Size	558.68mm(22")
	Pixel pitch	0.282mm(H) × 0.282mm(V)
	Display Area	473.76 x 296.1
	Viewable angle	160, 160 (CR>10)
	Contrast	1000:1
	Brightness	210 cd/m^2
	Response time	5ms(typical)
Input	Video	Analog RGB, 0.7 Volts +/-5%, positive polarity at 75 ohm input impedance Digital DVT TMDS 600mV for each differential line, positive polarity at 50 ohm input impedance
	Synchronization	Separate horizontal and vertical synchronizations, polarity-free TTL level, SOG (Composite SYNC on green)
	H-Frequency	31 - 83 kHz Multi- frequency monitor
	V-Frequency	55 - 76 Hz modes within these parameters
Display Colors		16.7M Colors
Max. Resolution		1680 x 1050
Plug & Play		VESA DPMS, EPA
EPA ENERGY STAR®	ON Mode	≤45W
	saving mode	< 2 Watt, 240 V
Input Connector		D-sub / DVI-D
Power Source		100~240V AC,50~60Hz
Environmental Considerations		Operating Temp: 0° to 35°C Operating Humidity: 10% to 80%
Dimension		401.6 x 512.2 x 163.4 mm
Weight (N. W.)		5.3 KG

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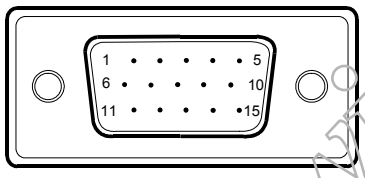
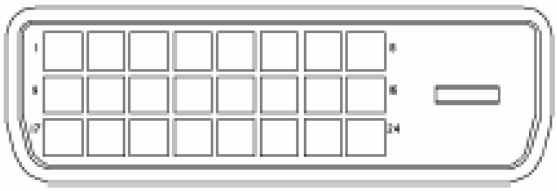
3.2 Input Signal Connector

Pin No.	Description	Pin No.	Description
1.	Red	9.	+5V
2.	Green	10.	Detect Cable
3.	Blue	11.	Ground
4.	Ground	12.	DDC-Serial Data
5.	VGA_CON	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		



Pin No.	Description	Pin No.	Description	Pin No.	Description
1	TX2-	9	TX1-	17	TX0-
2	TX2+	10	TX1+	18	TX0+
3	Shield (TX2 / TX4)	11	Shield (TX1 / TX3)	19	Shield (TX0 / TX5)
4	TX4-	12	TX3-	20	TX5-
5	TX4+	13	TX3+	21	TX5+
6	DDC-Serial Clock	14	+5V power	22	Shield (TXC)
7	DDC-Serial Data	15	Ground (H/V sync)	23	TXC+
8	V-Sync. (Analog)	16	Hot plug detect	24	TXC-

Pin - Assignment of DVI-D connector:



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3.3 Factory Preset Display Modes

Incoming display mode (Input timing)			
Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Pixel Frequency (MHz)
640x350	31.47	70.09	25.180
640x480	31.47	59.94	25.175
640x480	37.50	75.00	31.500
720x400	31.47	70.08	28.321
800x600	37.88	60.32	40.000
800x600	46.88	75.00	49.500
832x624	49.72	74.55	57.283
1024x768	48.36	60.00	65.000
1024x768	60.02	75.03	78.750
1152x720	44.86	60.00	66.750
1152x870	68.68	75.06	100.000
1152x900	61.80	65.96	92.978
1280x768	47.396	60.00	68.250
1280x800	49.702	59.81	83.500
1280x800	62.80	75.00	106.500
1280x960	60.00	60.00	108.000
1280x1024	63.98	60.02	108.000
1280x1024	79.98	75.02	135.000
1360x768	47.70	60.01	85.500
1440x900	55.94	59.89	106.500
1440x900	70.60	75.00	136.750
1680x1050	65.29	60.00	146.250

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3.4 Panel Specification

M220Z1-L03

OVERVIEW

The M220Z1-L03 model is a 22 inch wide TFT-LCD module with a 4-CCFL Backlight Unit and a 30-pin 2ch-LVDS interface. This module supports 1680 x 1050 WSXGA+ (16:10 wide screen) mode and displays up to 16.7 millions colors. The inverter module for the Backlight Unit is not built in.

General Specifications

Item	Specification	Unit	Note
Diagonal size	558.68	mm	
Active Area	473.76x296.1	mm	(1)
Bezel Opening Area	477.7 (H) x 300.1 (V)	mm	
Driver Element	a-Si TFT active matrix	-	-
Pixel Number	1680 x R.G.B. x 1050	pixel	-
Pixel Pitch	0.282(H) x 0.282(V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	16.7 millions	color	-
Transmissive Mode	Normally White	-	-
Surface Treatment	Hard coating (3H), AG (Haze 25%)	-	-

Mechanical Specifications

Item		Min.	Typ.	Max.	Unit	Note
Module Size	Horizontal(H)	493.2	493.7	494.2	mm	(1)
	Vertical(V)	319.6	320.1	320.6	mm	
	Depth(D)	16	16.5	17	mm	
Weight				2550	g	
I/F connector mounting position		The mounting inclination of the connector makes the screen center within ±0.5 mm as the horizontal.				

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

Electrical Characteristics

Parameter		Symbol	Value			Unit
			Min.	Typ.	Max.	
Power Supply Voltage		Vcc	4.5	5.0	5.5	V
Ripple Voltage		V_{RP}	-	--	250	mV
Rush Current		I_{RUSH}	-	--	3	A
Power Supply Current	White	Icc	-	630	819	mA
	Black		-	1170	1521	mA
	f_V = 75Hz, Vcc=4.5V		-	1330	1729	mA
LVDS differential input voltage		Vid	200	-	600	mV
LVDS common input voltage		Vic	--	1.2	--	V

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Optical Characteristics

Item		Symbol	Condition	Min.	Typ.	Max.	Unit
Color Chromaticity	Red	Rx	θ_x=0°, θ_Y =0° CS-1000T R=G=B=255 Grayscale	Typ – 0.03	0.649	Typ + 0.03	
		Ry			0.335		
	Green	Gx			0.283		
		Gy			0.605		
	Blue	Bx			0.151		
		By			0.073		
	White	Wx			0.313		
		Wy			0.329		
Center Luminance of White		L_C		250	300	---	cd/m^2
Contrast Ratio		CR		700	1000	---	-
Response Time		T_R	θ_x=0°, θ_Y =0°	---	1.3	2.2	ms
		T_F		---	3.7	5.8	ms
White Variation		δW	θ_x=0°, θ_Y =0°	---	1.3	1.42	-
Viewing Angle	Horizontal	θ_x+	CR>10	75	85	---	Deg.
		θ_x-		75	85	---	
	Vertical	θ_Y+		70	80	---	
		θ_Y-		70	80	---	

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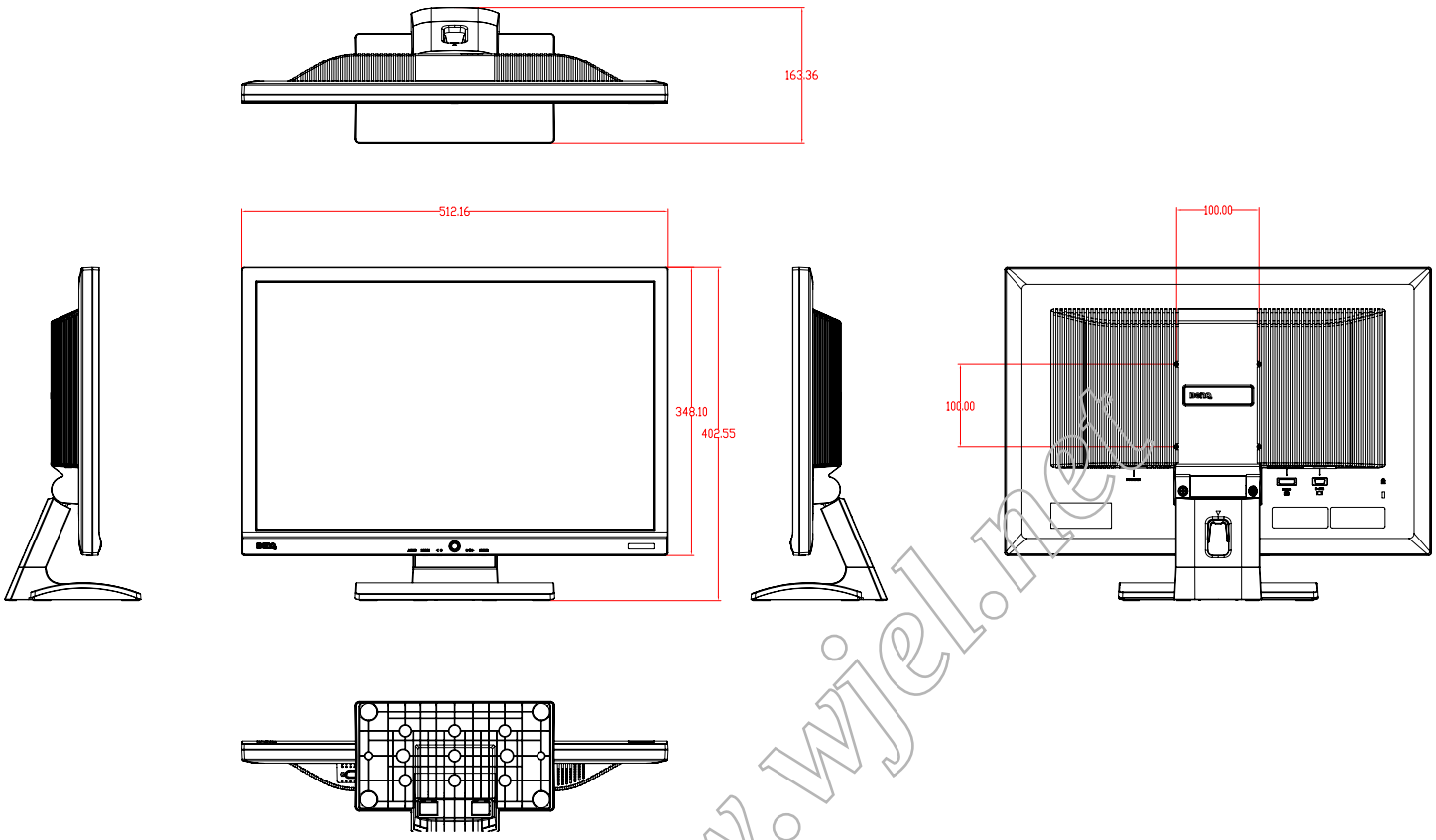
4 Disassembly /Assembly

4.1 Three angles’ view



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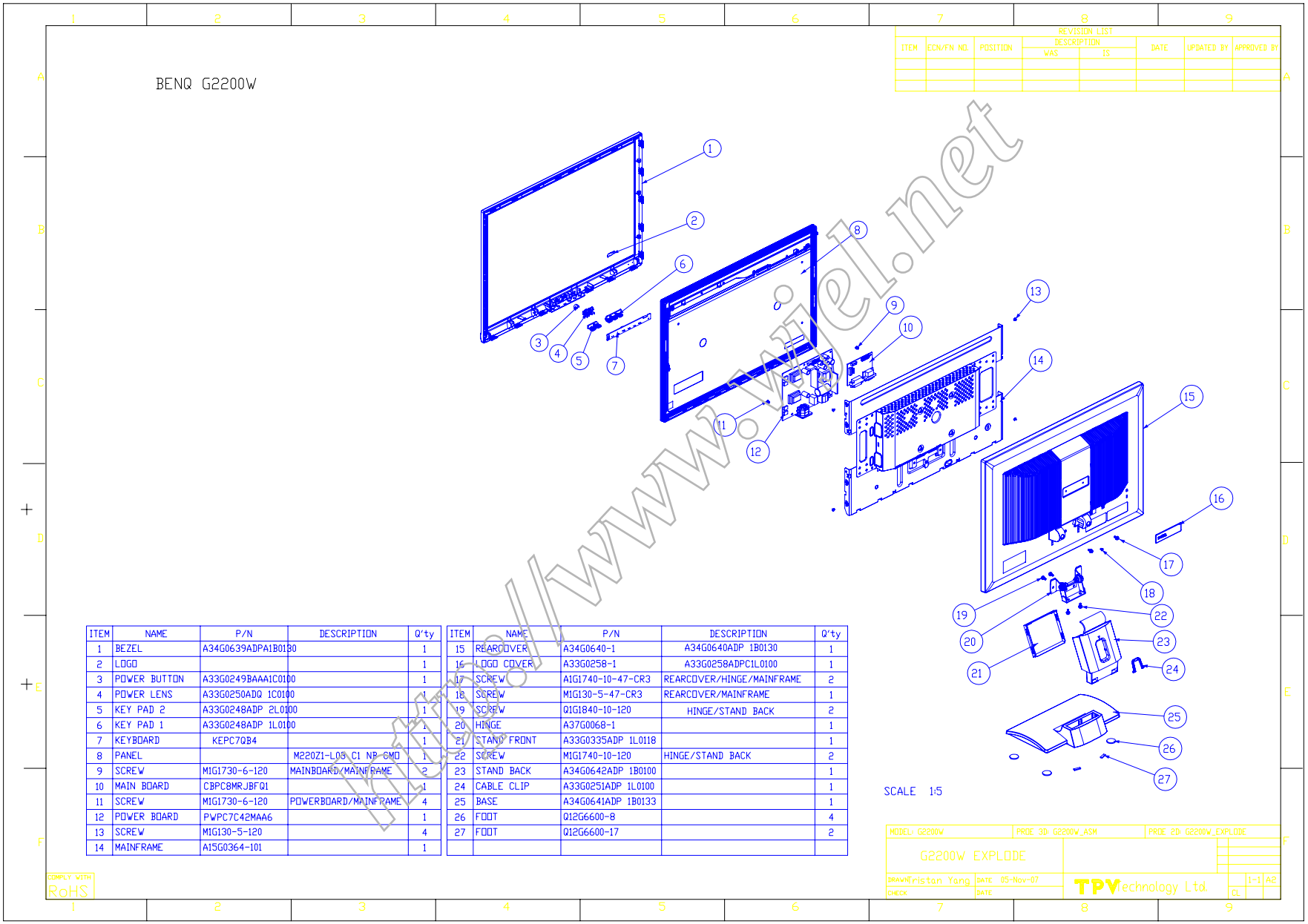
4.2 Exploded View



ITEM	NAME	P/N	DESCRIPTION	Q'ty
1	BEZEL	A34G0639ADPA1B0130		1
2	LOGO			1
3	POWER BUTTON	A33G0249BAAA1C0100		1
4	POWER LENS	A33G0250ADQ 1C0100		1
5	KEY PAD 2	A33G0248ADP 2L0100		1
6	KEY PAD 1	A33G0248ADP 1L0100		1
7	KEYBOARD	KEPC7QB4		1
8	PANEL		M220Z1-L03 C1 NB CMO	1
9	SCREW	M1G1730-6-120	MAINBOARD/MAINFRAME	2
10	MAIN BOARD	CBPC8MRJBFQ1		1
11	SCREW	M1G1730-6-120	POWERBOARD/MAINFRAME	4
12	POWER BOARD	PWPC7C42MAA6		1
13	SCREW	M1G130-5-120		4
14	MAINFRAME	A15G0364-101		1

ITEM	NAME	P/N	DESCRIPTION	Q'ty
15	REARCOVER	A34G0640-1	A34G0640ADP 1B0130	1
16	LOGO COVER	A33G0258-1	A33G0258ADPC1L0100	1
17	SCREW	A1G1740-10-47-CR3	REARCOVER/HINGE/MAINFRAME	2
18	SCREW	M1G130-5-47-CR3	REARCOVER/MAINFRAME	1
19	SCREW	Q1G1840-10-120	HINGE/STAND BACK	2
20	HINGE	A37G0068-1		1
21	STAND FRONT	A33G0335ADP 1L0118		1
22	SCREW	M1G1740-10-120	HINGE/STAND BACK	2
23	STAND BACK	A34G0642ADP 1B0100		1
24	CABLE CLIP	A33G0251ADP 1L0100		1
25	BASE	A34G0641ADP 1B0133		1
26	FOOT	Q12G6600-8		4
27	FOOT	Q12G6600-17		2

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4.3 Disassembly

1). Back View as Fig1

Place the monitor face down on a smooth surface as Fig 1. Be careful to avoid scratch and injury during the uninstall.

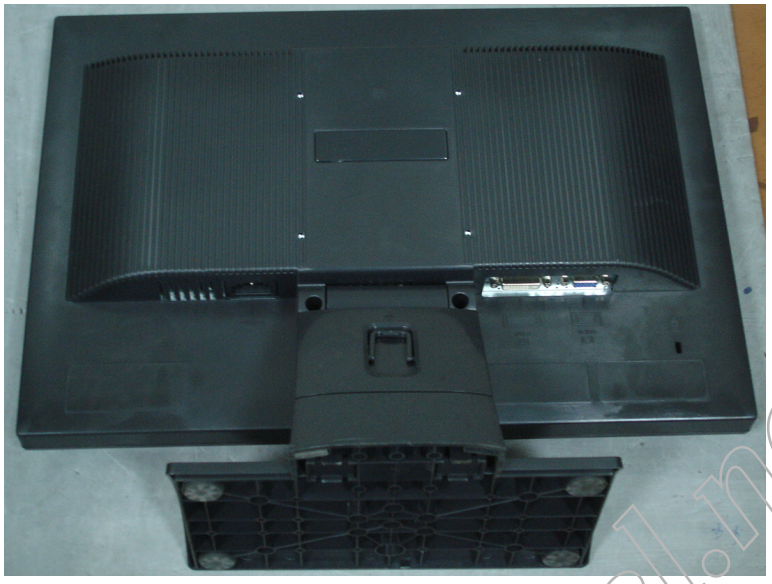

Fig1

2).Remove the STAND-BASE ASS'Y

Remove the two screws in red to remove the STAND-BASE ASS'Y as Fig2.

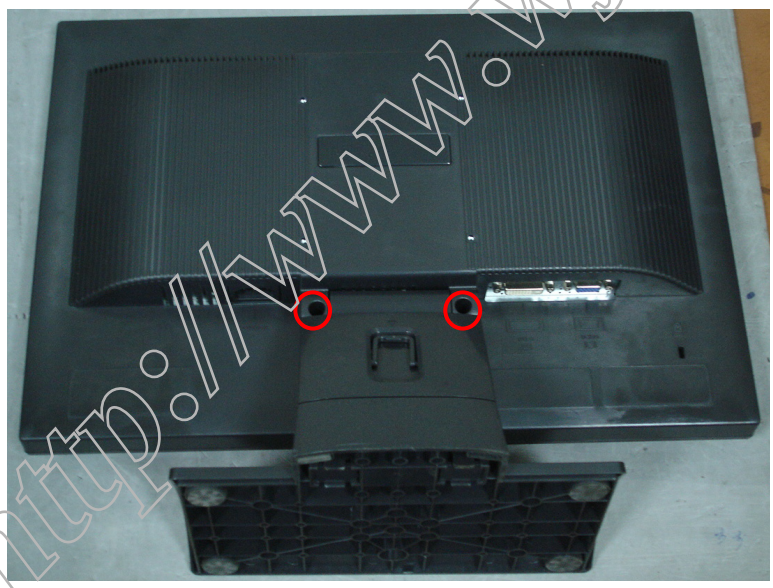

Fig2

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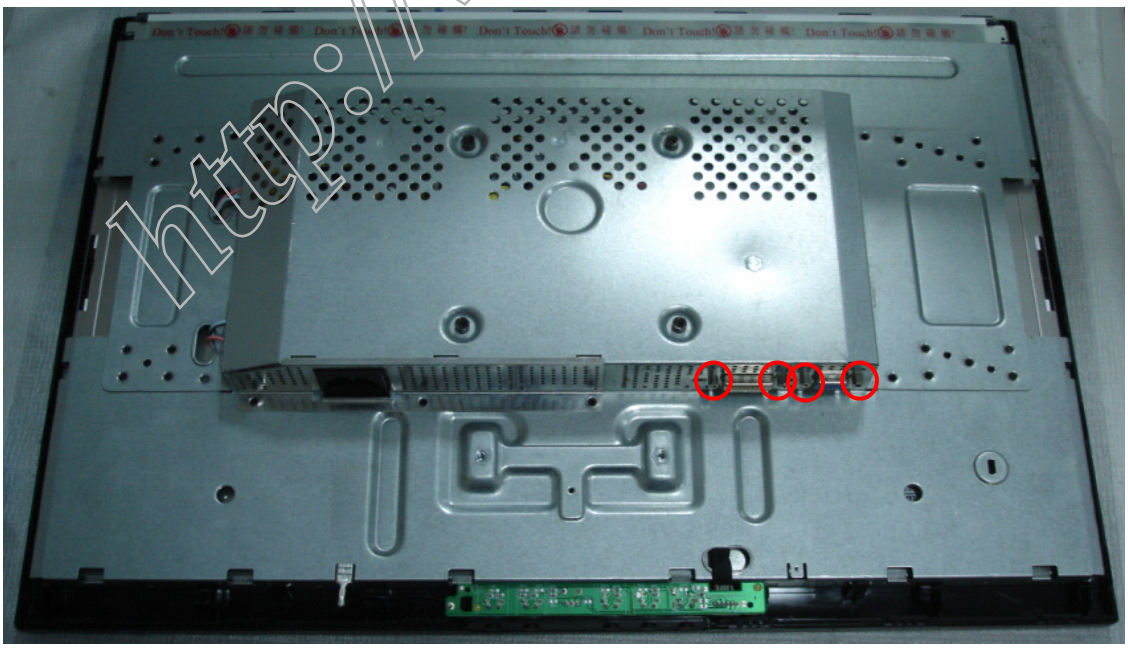
3).Remove the Rear Cover and Bezel

The arrows in blue are the hook that we should put attention to when remove the rear cover. Use plastic putty knife to release the 5 hooks on the bottom,8 hooks on the top,4 hooks on the left,4 hooks on the right and remove the only one screw in red as Fig.3 on the rear cover , then you can easily remove the rear cover and bezel.

Fig.3



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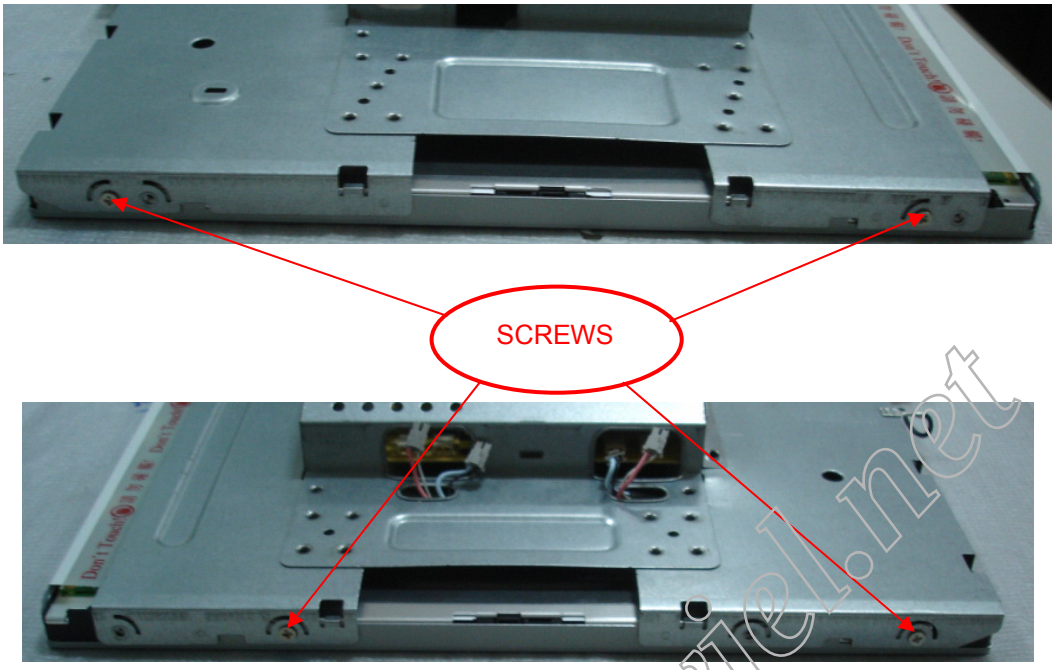
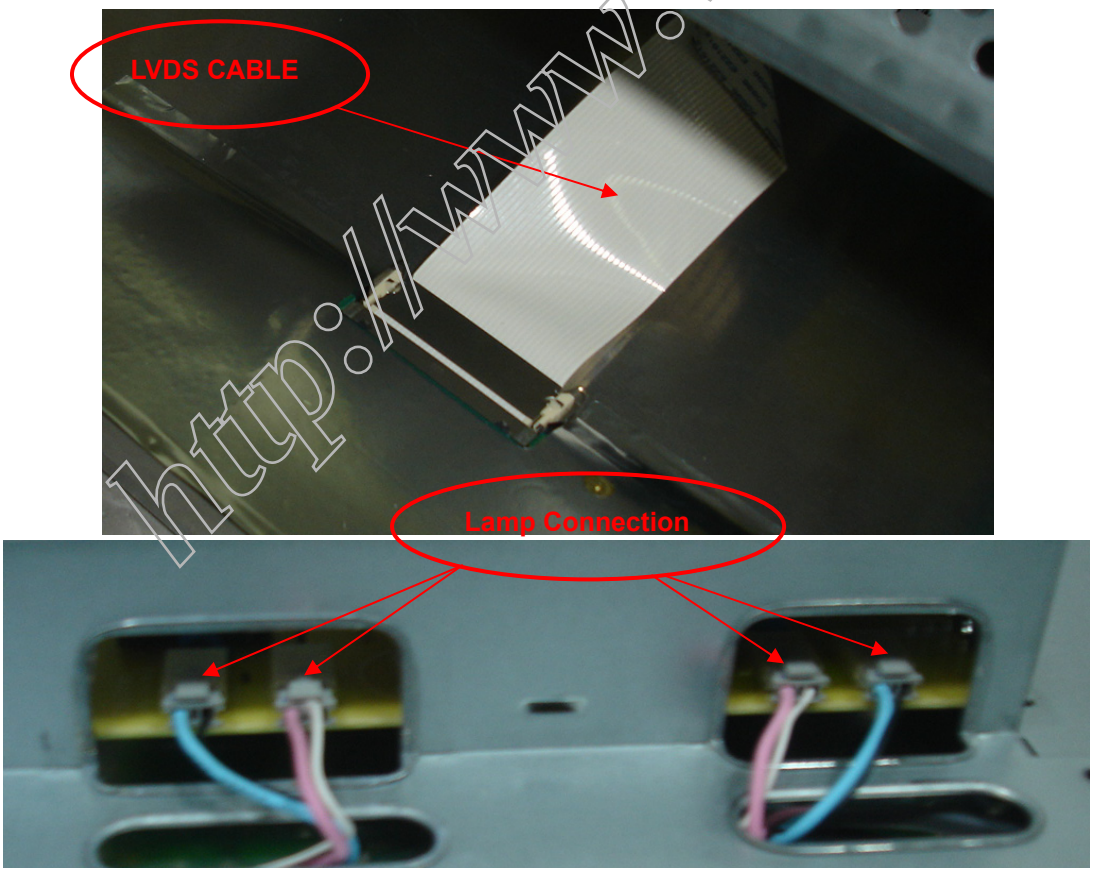
4).Remove the Panel

Remove the 4 screws on the side of main frame first, and then disconnect the Lamp Connections and LVDS Cable connection.





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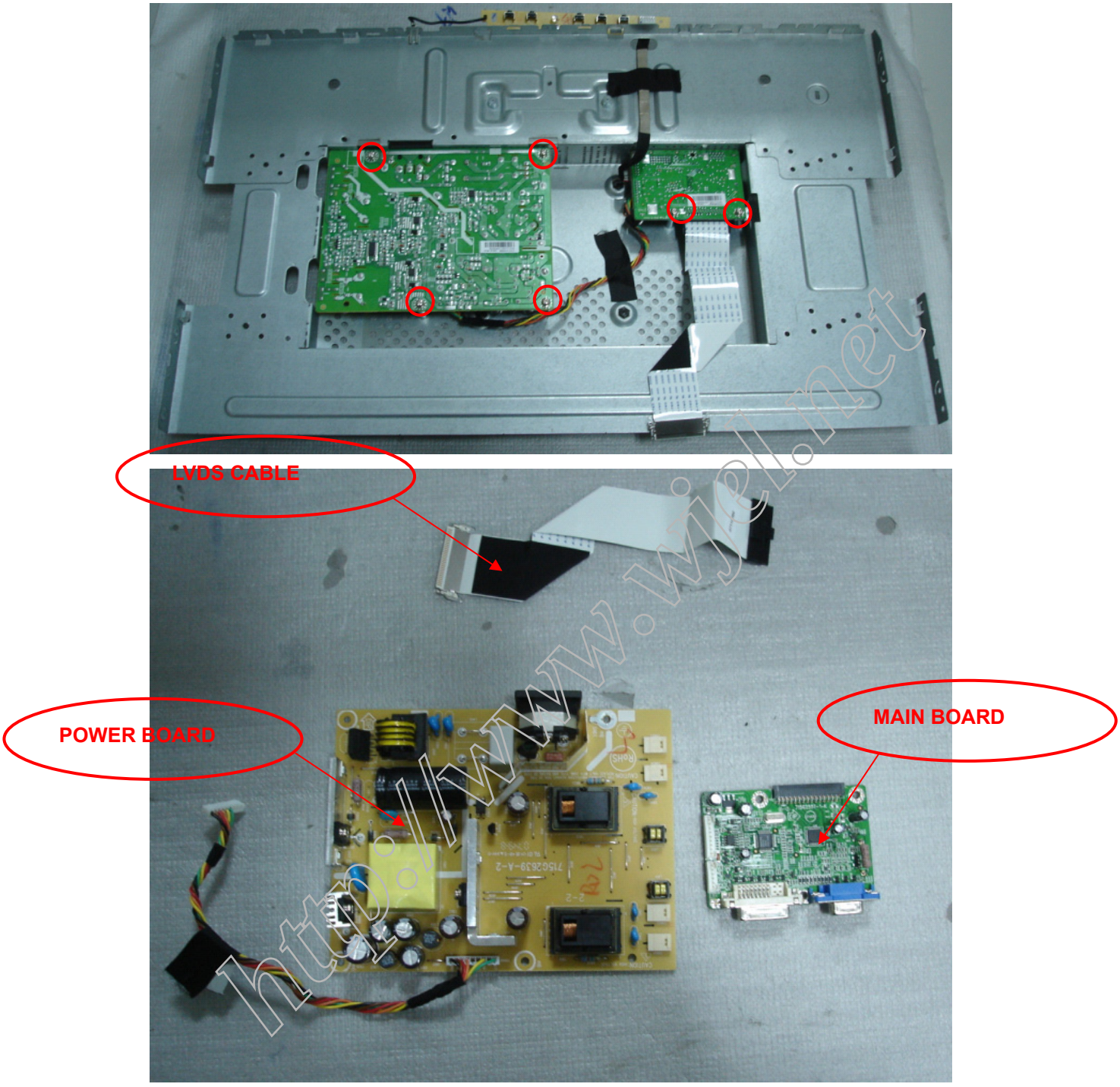
5).Remove the Main Board and Power Board

Remove the screws in red and disconnect the all connections, at last you can get the Main Board and Power Board as follow.



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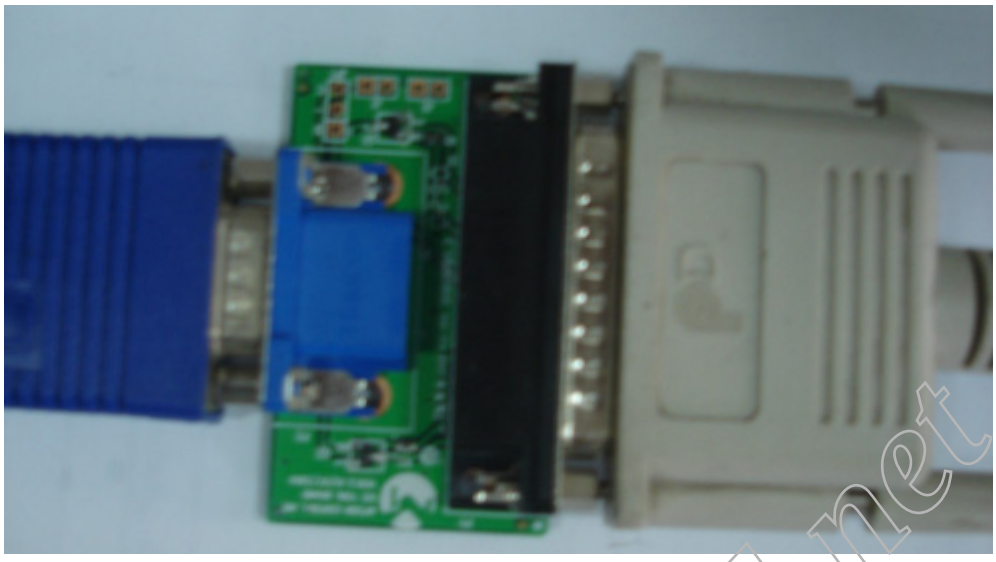
5. Cosmetic / Appearance / Alignment Service

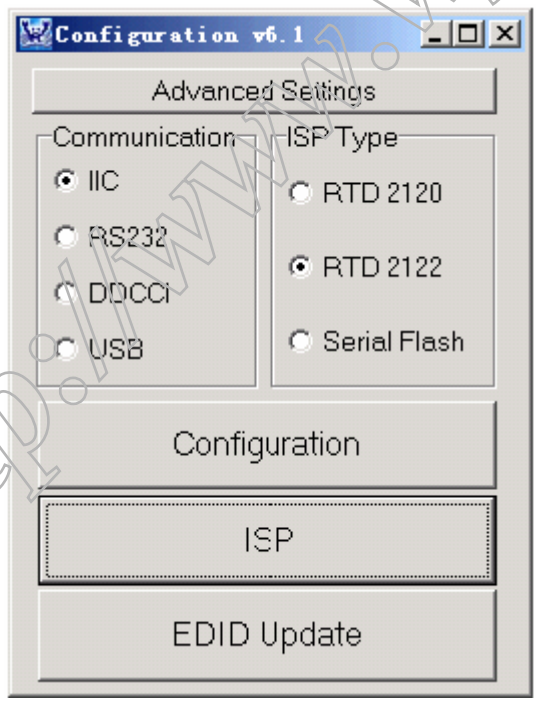
5.1 Software/Firmware Upgrade Process

1) Connect the ISP board as follow:

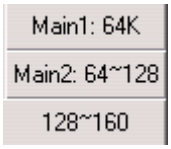


2) Double-click

, running the program as follows:



3) Click the

icon, when the screen as shown below appears, please click the 

icon to load the software program. The program of H00 should loaded in the first line.

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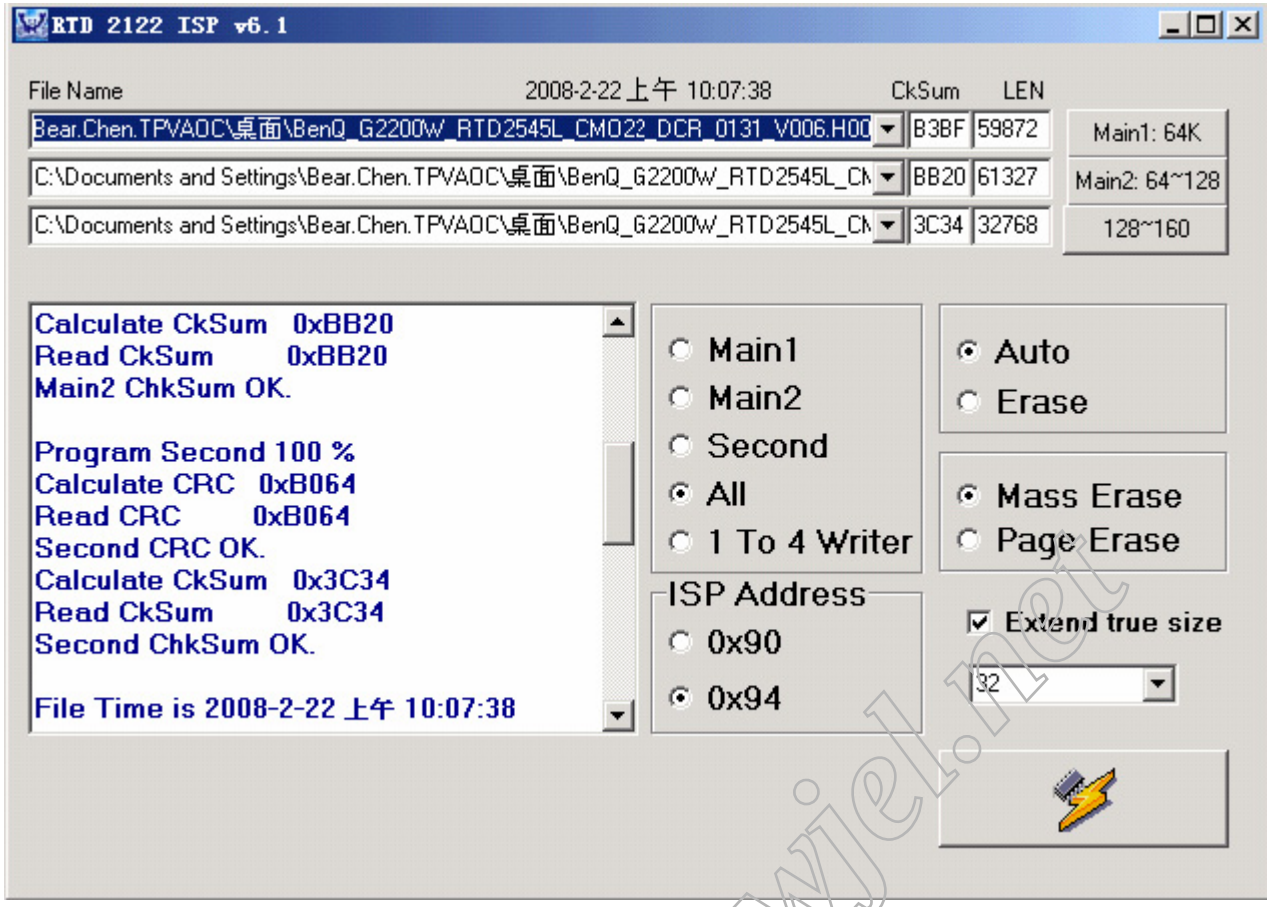
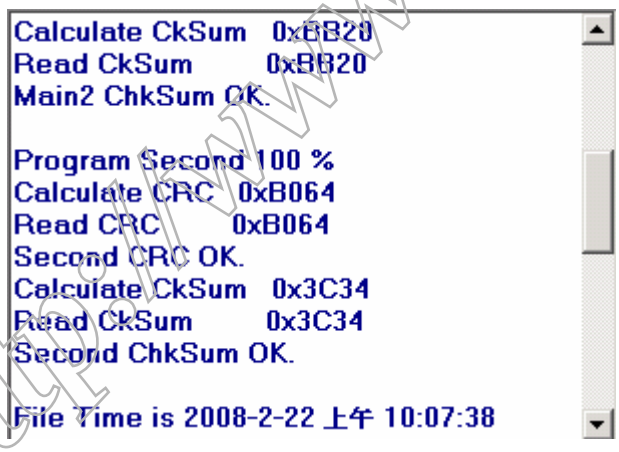


4) Until appears the follow Figure, writer completed.



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5.2 Adjustment / Alignment Procedure

Adjusting the Picture

You can use the OSD (On Screen Display) menu to adjust all the settings on your monitor.

Press the MENU key to display the following main OSD menu.

There are four main OSD menus:

1. Display
2. Picture
3. Picture Advanced
4. System

Use the ◀ (left) or ▶ (right) keys to highlight a menu item, and press the ENTER key to enter the Menu item settings.

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Display menu

1. Press the MENU key to display the main menu.

2. Press the ◀ (left) or ▶ (right) keys to select DISPLAY and then press the ENTER key to enter the menu.

3. Press the ◀ (left) or ▶ (right) keys to move the highlight to a menu item and then press the ENTER key to select that item.

4. Press the ◀ (left) or ▶ (right) keys to make adjustments or selections.

5. To return to the previous menu, press the MENU button.

Item	Function	Operation	Range
Auto Adjustment	Optimizes and adjusts the screen settings automatically for you. The AUTO key is a ‘hot-key’ for this function.	Press the ENTER key to select this option and make adjustment.	
H. Position	Adjusts the horizontal position of the screen image.	Press the ◀ (left) or ▶ (right) keys to adjust the value.	0 to 100
V. Position	Adjusts the vertical position of the screen image.		0 to 100
Pixel Clock	Adjusts the pixel clock frequency timing to synchronize with the analog input video signal. Not applicable to a digital input signal.		0 to 100
Phase	Adjusts the pixel clock phase timing to synchronize with the analog input video signal. Not applicable to a digital input signal.		0 to 63

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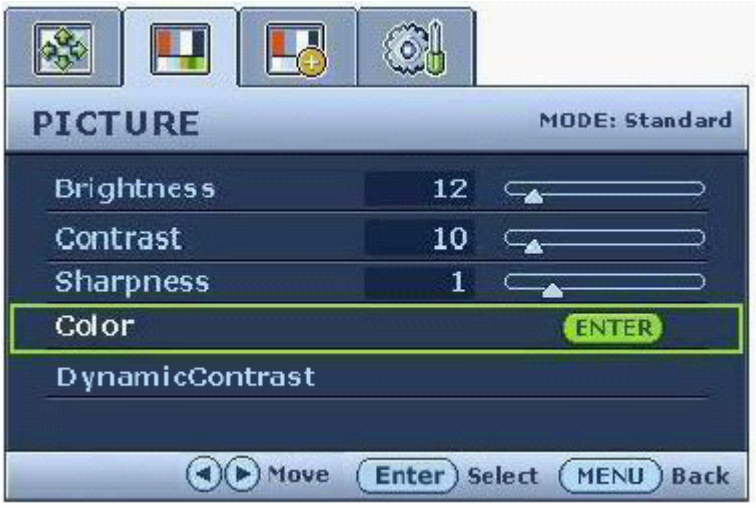
Picture menu



1. Press the MENU key to display the main menu.

2. Press the ◀ (left) or ▶ (right) keys to select PICTURE and then press the ENTER key to enter the menu.

3. Press the ◀ (left) or ▶ (right) keys to move the highlight to a menu item and then press the ENTER key to select that item.

4. Press the ◀ (left) or ▶ (right) keys to make adjustments or selections.

5. To return to the previous menu, press the MENU button.

Item	Function	Operation	Range
Brightness	Adjusts the balance between light and dark shades. The function is not available for use when Dynamic Contrast is on	Press the ▶ key to increase the brightness and press the ◀ key to decrease the brightness.	0 to 100
Contrast	Adjusts the degree of difference between darkness and lightness. The function is not available for use when Dynamic Contrast is on.	Press the ▶ key to increase the contrast and press the ◀ key to decrease the contrast.	0 to 100
Sharpness	Adjusts the clarity and visibility of the edges of the subjects in the image.	Press the ▶ key to improve the crispness of the display and press the ◀ key to have softness effect on the display.	1 to 5

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Color - Press ENTER to enter the Color menu.			
Normal	Allows video and still photographs to be viewed with natural coloring. This is the factory default color.	Press the ◀ (left) or ▶ (right) keys to select this option.	0 to 100
Bluish	Applies a cool tint to the image and is factory pre-set to the PC industry standard white color.		0 to 63
Reddish	Applies a warm tint to the image and is factory pre-set to the news print standard white color.		
User Mode	Tailors the image color tint. The blend of the Red, Green and Blue primary colors can be altered to change the color tint of the image. The default start setting is 50. Decreasing one or more of the colors will reduce their respective influence on the color tint of the image. e.g. if you reduce the Blue level the image will gradually take on a yellowish tint. If you reduce Green, the image will become a magenta tint.	Press the ◀ (left) or ▶ (right) keys and the ENTER key to select Red, Green, or Blue. Then use Press the ◀ (left) or ▶ (right) keys to make the color adjustments.	• Red (0 to 100) • Green (0 to 100) • Blue (0 to 100)
Reset Color	Resets the User Mode custom color settings to the factory defaults.	Press the ◀ (left) or ▶ (right) keys to change the settings.	• YES • NO
Press MENU to leave the Color menu.			
Dynamic Contrast	The function will increase the level of contrast to provide sharper and more detailed image quality. Activating Dynamic Contrast will disable Brightness and Contrast controls.	Press the ENTER key to select this option. Press the ◀ (left) or ▶ (right) keys to change the settings.	• ON • OFF

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Picture Advanced menu

1. Press the MENU key to display the main menu.

2. Press the ◀ (left) or ▶ (right) keys to select PICTURE ADVANCED and then press the ENTER key to enter the menu.

3. Press the ◀ (left) or ▶ (right) keys to move the highlight to a menu item and then press the ENTER key to select that item.

4. Press the ◀ (left) or ▶ (right) keys to make adjustments or selections.

5. To return to the previous menu, press the MENU button.

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Item	Function	Operation	Range
Picture Mode	Selects a picture mode that best suits the type of images shown on the screen. • Standard - for basic PC application. • Movie - for viewing videos. • Dynamics - for viewing landscape-specific videos and playing games. • Photo - for viewing still images. • sRGB - for better color matching representation with the peripheral devices, such as printers, DSCs, etc.	Press the ◀ (left) or ▶ (right) keys to change the settings.	• Standard • Movie • Dynamics • Photo • sRGB
Display Mode	This feature is provided to allow aspect ratio’s other than 16:10 to be displayed without geometric distortion. • Full - Scales the input image to fill the screen. Ideal for 16:10 aspect images. • Aspect - Ideal for 4:3 aspect images.	Press the ◀ (left) or ▶ (right) keys to change the settings.	• Full • Aspect
Senseye Demo	Displays the preview of screen images under the selected mode from Picture Mode. The screen will be divided into two windows; the left window demonstrates images of Standard mode, while the right window presents the images under the specified mode.	Press the ◀ (left) or ▶ (right) keys to change the settings.	• ON • OFF

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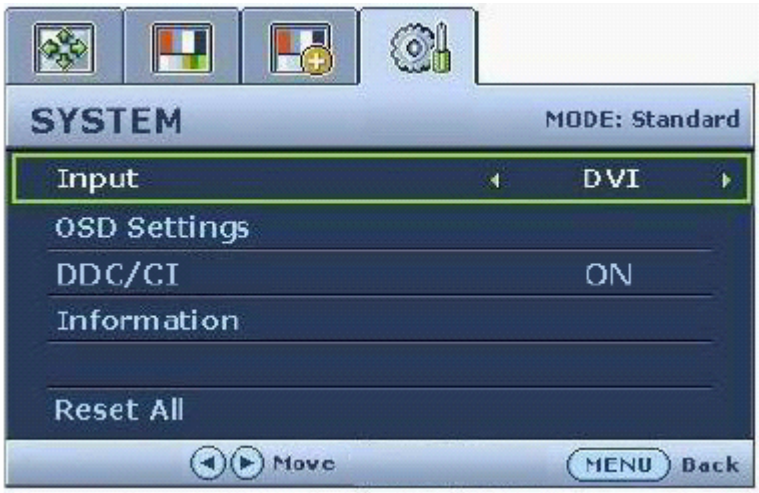
System menu



1. Press the MENU key to display the main menu.

2. Press the ◀ (left) or ▶ (right) keys to select SYSTEM and then press the ENTER key to enter the menu.

3. Press the ◀ (left) or ▶ (right) keys to move the highlight to a menu item and then press the ENTER key to select that item.

4. Press the ◀ (left) or ▶ (right) keys to make adjustments or selections.

5. To return to the previous menu, press the MENU button.

Item	Function	Operation	Range
Input	Selects the D-sub (analog) or DVI (digital) input. Use this to change the input to that appropriate to your video cable connection type. Analog-only models do not have the Input function.	Press the ◀ (left) or ▶ (right) keys to change the settings.	• DVI • D-sub
OSD Settings - Press ENTER to enter the OSD Settings menu.			
Language	Sets the OSD menu Language.	Press the ◀ (left) or ▶ (right) keys to adjust the value. The language options displayed on your OSD may differ from those shown on the right, depending on the product supplied in your	• English • French • German • Italian • Spanish • Polish/ Japanese • Czech/ Traditional Chinese • Hungarian/ Simplified

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		region.	Chinese • Serbo-Croatian • Romanian • Dutch • Russian • Swedish • Portuguese
H. Position	Adjusts the horizontal position of the OSD menu.	Press the ◀ (left) or ▶ (right) keys to change the settings.	0 to 100
V. Position	Adjusts the vertical position of the OSD menu.		0 to 100
Display Time	Adjusts the display the OSD menu.		• 5 Sec. • 10 Sec. • 15 Sec. • 20 Sec. • 25 Sec. • 30 Sec.
OSD Lock	Prevents all the monitor settings from being accidentally changed. When this function is activated, the OSD controls and hotkey operations will be disabled.	Press the ◀ (left) or ▶ (right) keys to change the settings. To unlock the OSD controls when the OSD is preset to be locked, press and hold the ’MENU' key for 15 seconds to enter the 'OSD Lock' option and make changes. Alternatively, you may use the ◀ (left) or ▶ (right) keys to select ’OFF’ in the 'OSD Lock' submenu from the ’OSD Settings’ menu, and all OSD controls will	• YES • NO

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		be accessible.	
Press MENU to leave the OSD Settings menu.			
DDC/CI*	Allows the monitor settings to be set through the software on the PC.	Press the ENTER key to select this option. Press the ◀ (left) or ▶ (right) keys to change the settings.	• ON • OFF
Information	Displays the current monitor property settings.	Press the ENTER key to select this option.	
Reset All	Resets all mode, color and geometry settings to the factory default values.	Press the ◀ (left) or ▶ (right) keys to change the settings.	• YES • NO

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5.3 White-Balance, Luminance Adjustment

Approximately 30 minutes should be allowed for warm up before proceeding white balance adjustment.

Before started adjust white balance , please set the Chroma-7120 MEM Channel 3 to Reddish (5800K) color, MEM Channel 4 to Normal (6500K) color, MEM Channel 9 to Bluish (9300K) color , and MEM Channel 10 to sRGB color (our Reddish color parameter is x = 326 ±20, y = 342 ±20, Y≥200±20cd/m^2; Normal color parameter is x = 313±20, y = 329 ±20, Y≥220±20cd/m^2; Bluish color parameter is x = 283 ±20, y = 297 ±20, Y≥180±20cd/m^2 ; sRGB color parameter is x = 313 ±30, y = 329 ±30, Y=200±20cd/m^2)

How to setting MEM channel you can reference to chroma 7120 user guide or simple use " SC" key and " NEXT" Key to modify xyY value and use "ID" key to modify the TEXT description Following is the procedure to do white-balance adjust .

2. Setting the color temp. you want

A. MEM.CHANNEL 3 (Reddish color):

Reddish color temp. parameter is x = 326 ±20, y = 342 ±20, Y≥200±20cd/m^2

B. MEM.CHANNEL 4 (Normal color):

Normal color temp. parameter is x = 313±20, y = 329 ±20, Y≥220±20cd/m^2

C. MEM.CHANNEL 9 (Bluish color):

Bluish color temp. parameter is x = 283 ±20, y = 297 ±20, Y≥180±20cd/m^2

D. MEM.CHANNEL 10 (sRGB color):

sRGB color temp. parameter is x = 313 ±30, y = 329 ±30, Y=200±20cd/m^2

3. Into Factory mode of BENQ G2200W:

Turn off the monitor, keep pressing the ENTER button, and turn on the monitor , then when we press the AUTO button, the factory OSD will be at the left top of the panel

4. Bias adjustment:

Set the **Contrast** to 50; Adjust the **Brightness** to 100.

5. Gain adjustment:

Move cursor to "-F-" and press MENU key

A. Adjust Reddish (5800K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM. channel to Channel 3 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 326 ±20, y = 342 ±20, Y≥200±20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

B. Adjust Normal (6500K) color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press "MODE" button)
2. Switch the MEM. channel to Channel 4(with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313±20, y = 329 ±20, Y≥220±20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100

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5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

C. Adjust Bluish (9300K) color-temperature

1. Switch the Chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. Channel to Channel 9 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 283 ±20, y = 297 ±20, Y≥180±20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reached the value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

D. Adjust sRGB color-temperature

1. Switch the chroma-7120 to **RGB-Mode** (with press “MODE” button)
2. Switch the MEM. channel to Channel 10 (with up or down arrow on chroma 7120)
3. The LCD-indicator on chroma 7120 will show x = 313 ±30, y = 329 ±30, Y=200±20cd/m^2
4. Adjust the RED on factory window until chroma 7120 indicator reached the value R=100
5. Adjust the GREEN on factory window until chroma 7120 indicator reachedthe value G=100
6. Adjust the BLUE on factory window until chroma 7120 indicator reached the value B=100
7. Repeat above procedure (item 4,5,6) until chroma 7120 RGB value meet the tolerance =100±2

E. Turn the Power-button off to quit from factory mode

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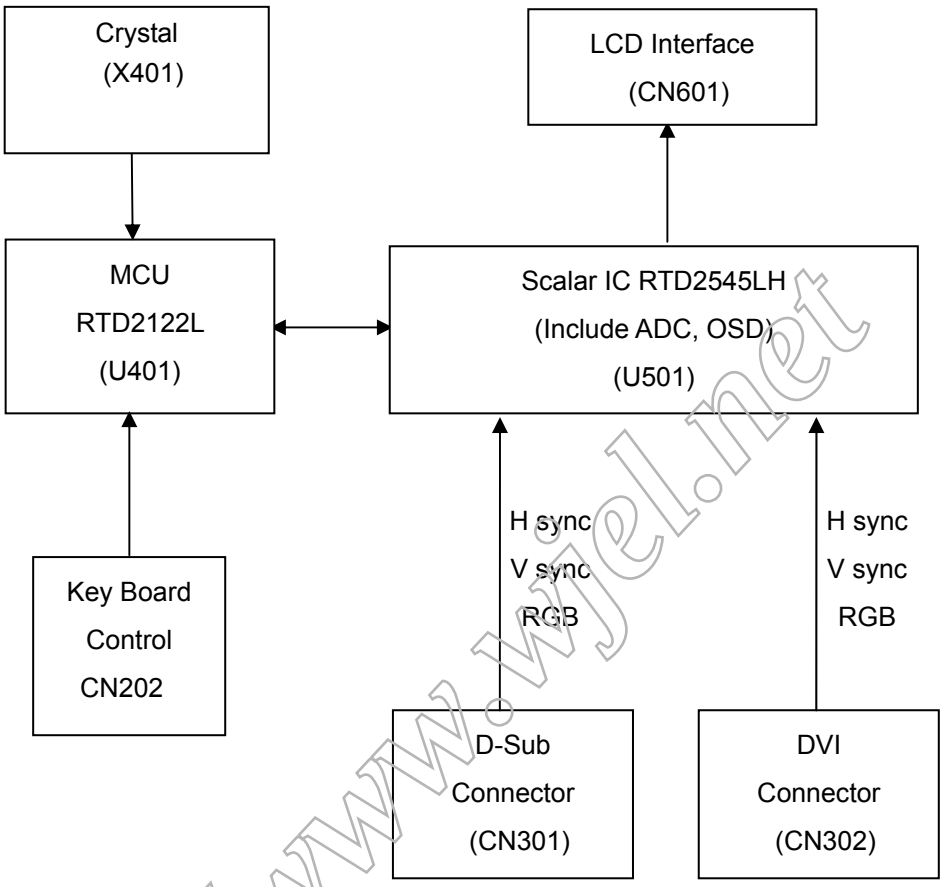
6 Circuit Board and Standard Parts Replacement

6.1 Electrical Block Diagram

Main Board



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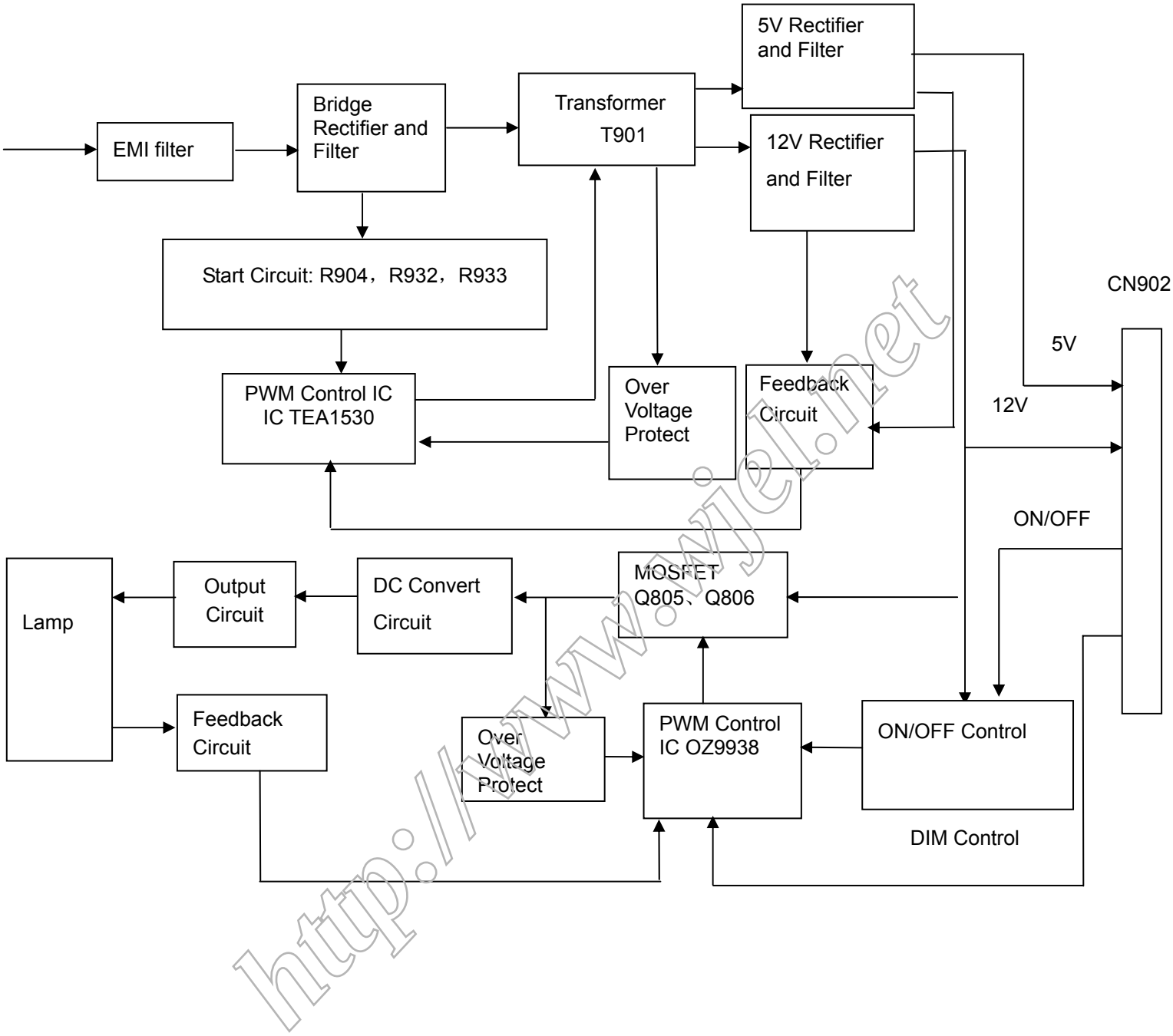
Inverter/Power Board



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6.2 Troubleshooting Guide

Equipments and Tools Requirement

1. Voltmeter.
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with and Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

Problem	Check
① The picture does not appear.	
(Power indicator does not light up.)	☐ The Power Cable is firmly seated in the socket. ☐ The Power Switch is turned ON. ☐ The AC socket is live. Please check with another piece of equipment.
(Power indicator is green/blue.)	☐ If the blank screen saver is in active mode, touch the keyboard or the mouse. ☐ Increase the Contrast and/or Brightness. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	☐ If the monitor is in power management mode, touch the keyboard or the mouse. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor. ☐ The video output level of the computer is within the specification of the monitor.
③ The screen position is not in the center.	☐ The signal timing of the computer is within the specification of the monitor.
④ The screen is too bright or too dark.	☐ The video output level of the computer is within the specification of the monitor.
⑤ The screen is shaking.	☐ The power voltage is within the specification of the monitor. ☐ The signal timing of the computer is within the specification of the monitor.

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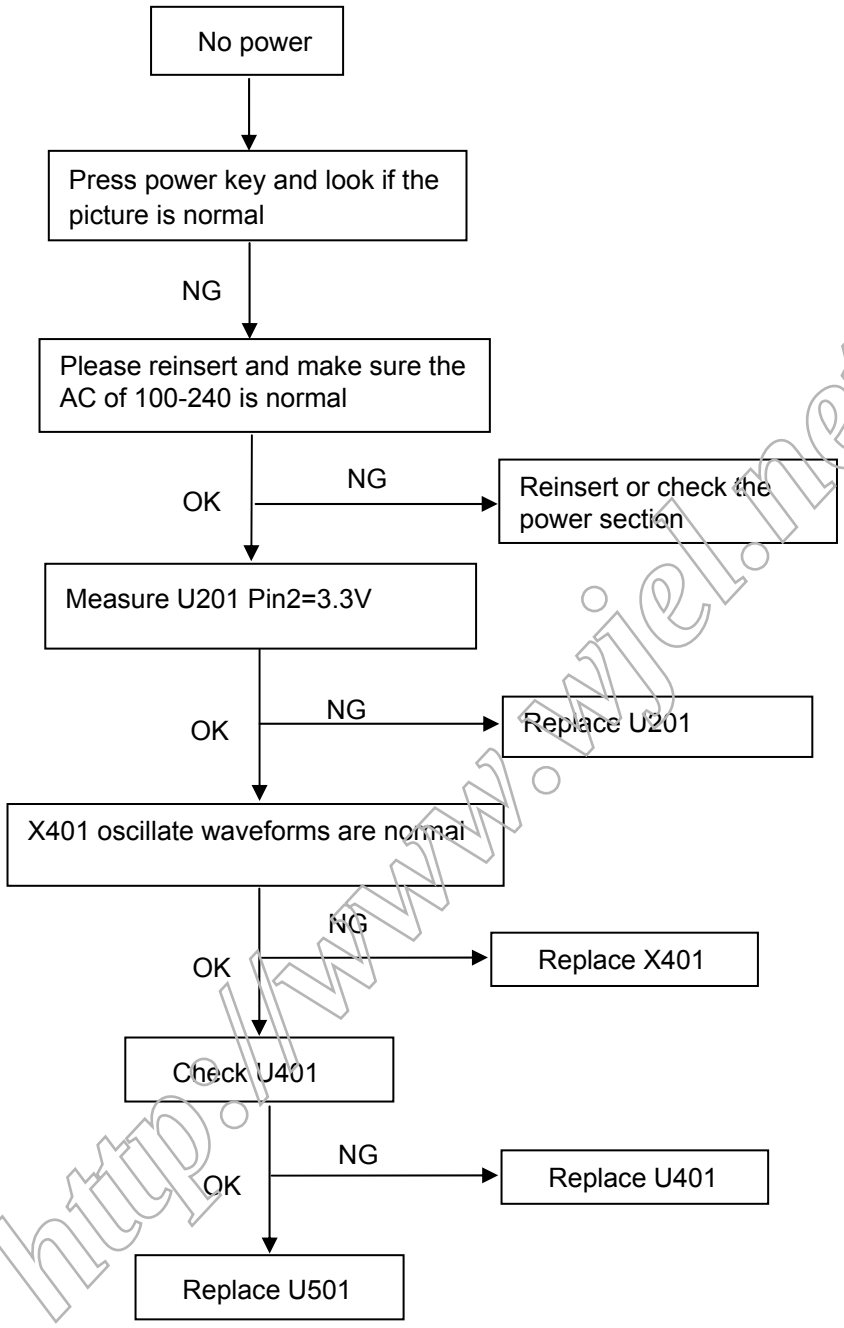
Main Board

(1) No Power



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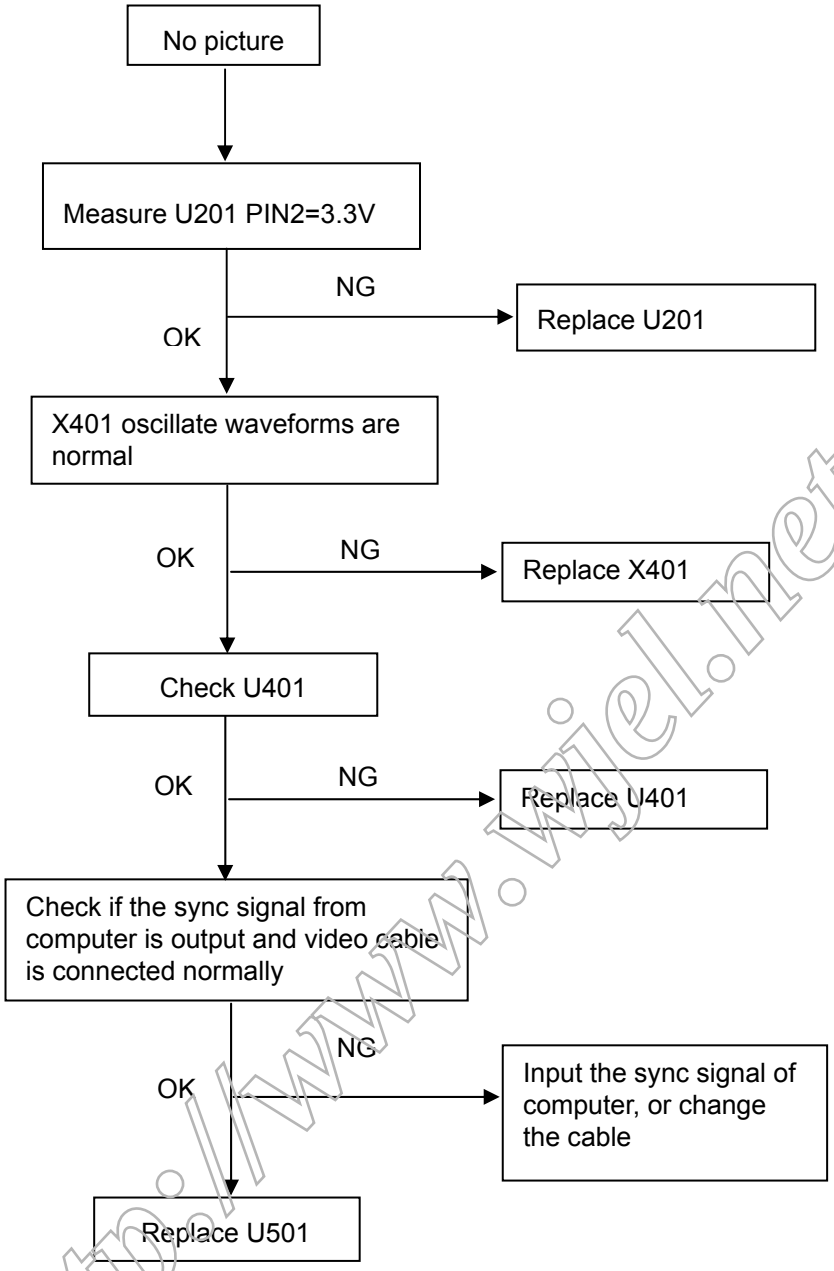
(2) No picture



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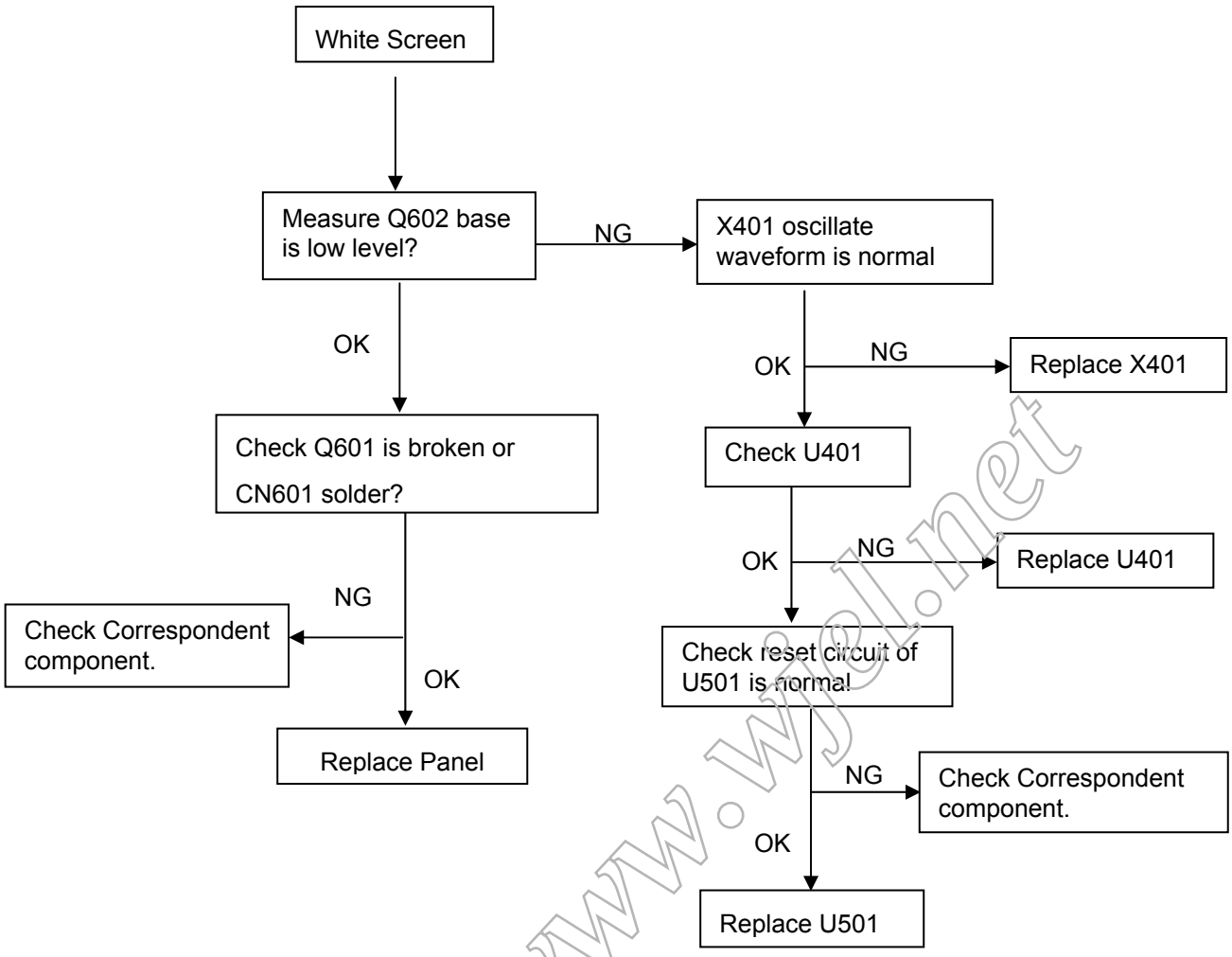
(3) White screen



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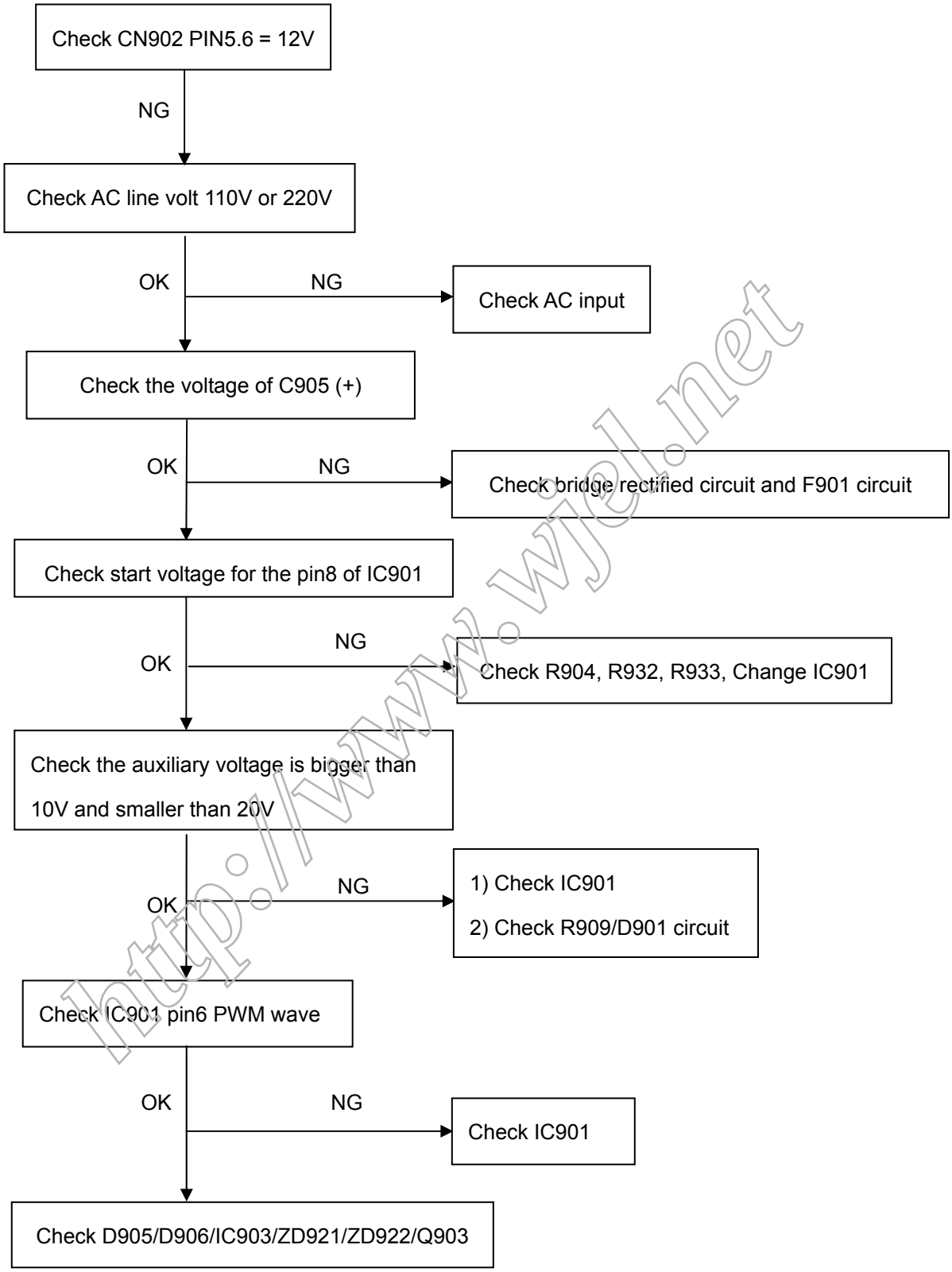
Power/Inverter Board

No power



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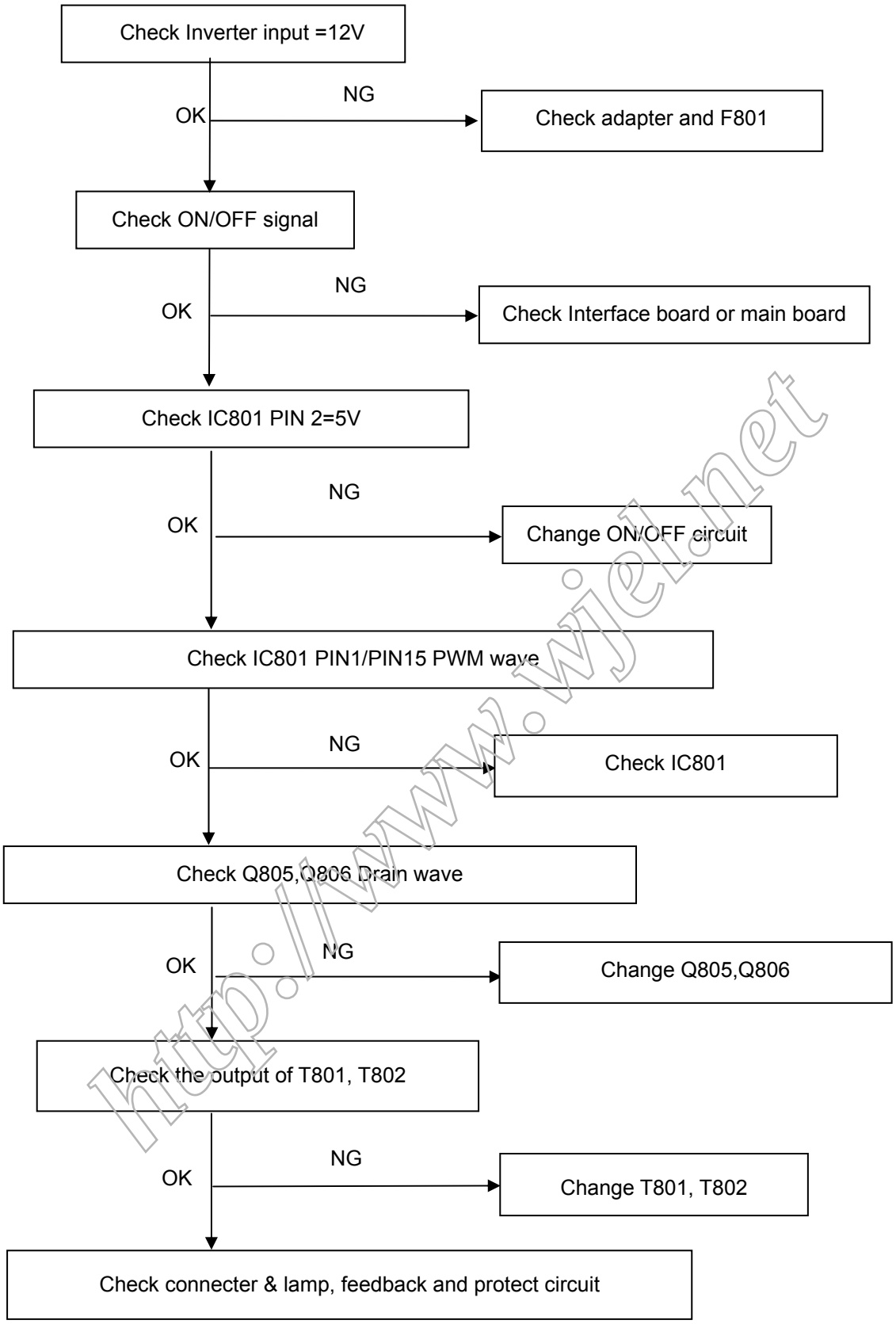
W / LED, No Backlight



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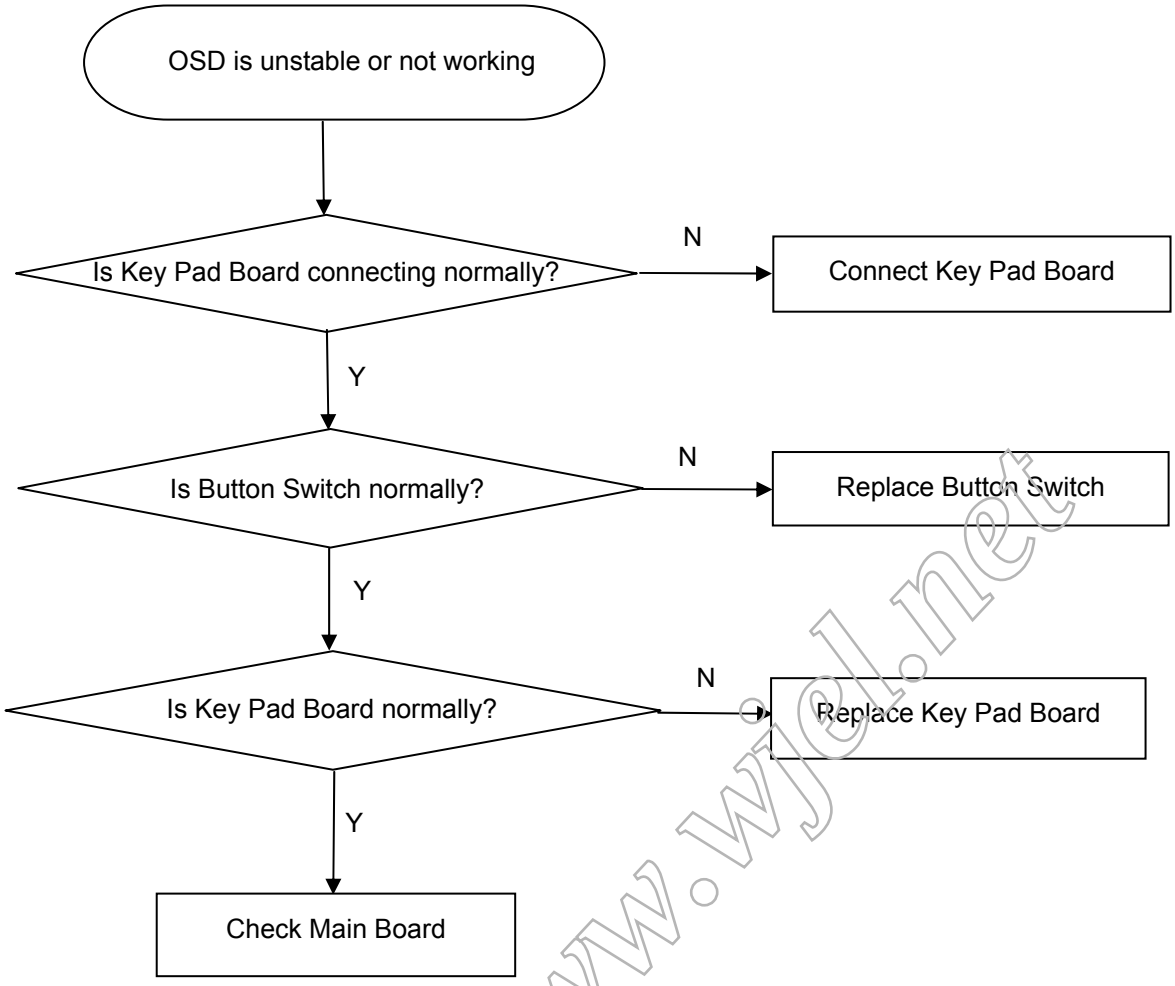
Keypad Board



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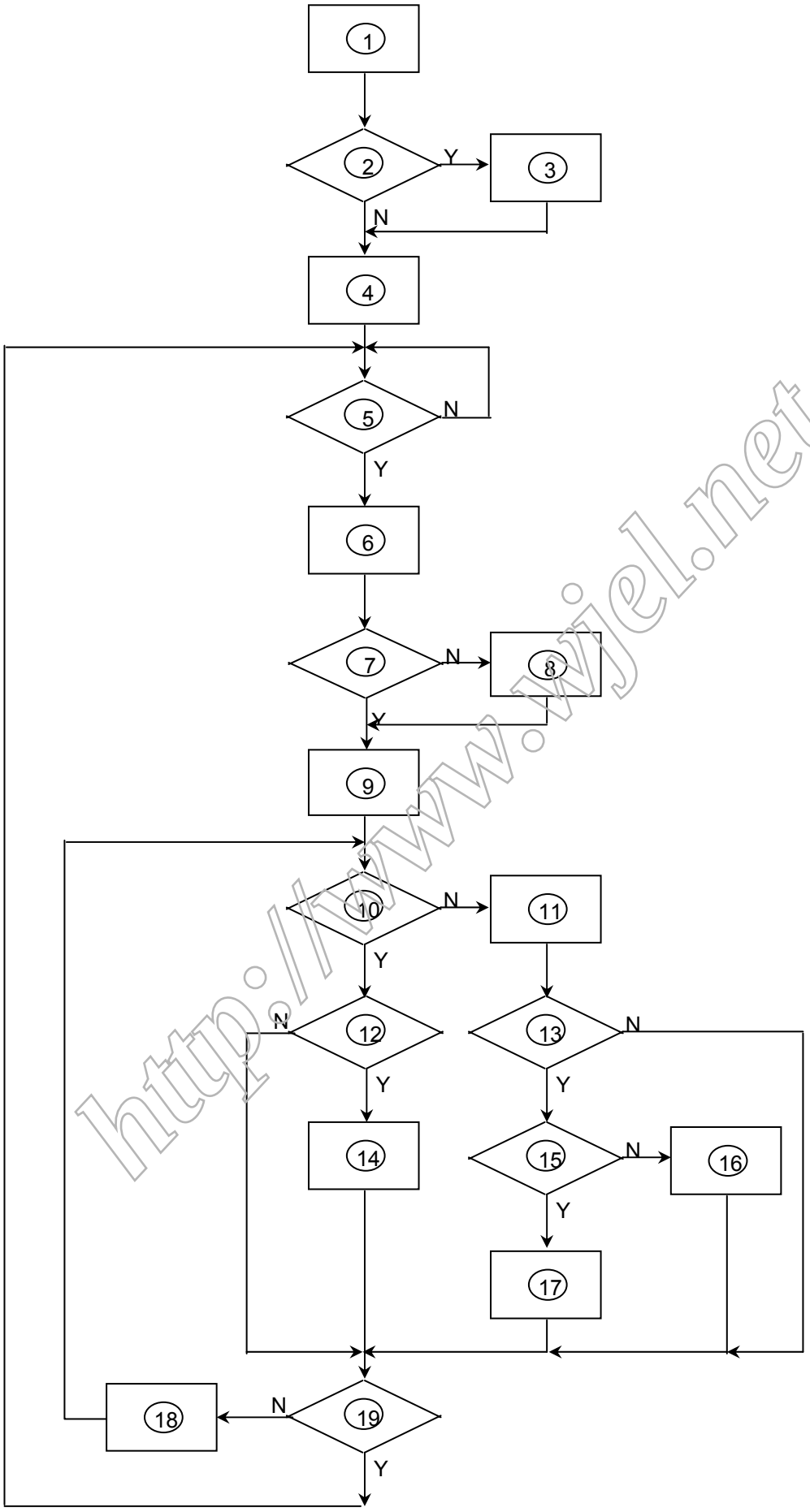
6.3 Circuit Operation Theory



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1) MCU initializes.
2) Is the EPROM blank?
3) Program the EPROM by default values.
4) Get the PWM value of brightness from EPROM.
5) Is the power key pressed?
6) Clear all global flags.
7) Are the AUTO and SELECT keys pressed?
8) Enter factory mode.
9) Save the power key status into EPROM.
   Turn on the LED and set it to green color.
   Scalar initializes.
10) In standby mode?
11) Update the lifetime of back light.
12) Check the analog port, are there any signals coming?
13) Does the scalar send out an interrupt request?
14) Wake up the scalar.
15) Are there any signals coming from analog port?
16) Display "No connection Check Signal Cable" message. And go into standby mode after the message disappears.
17) Program the scalar to be able to show the coming mode.
18) Process the OSD display.
19) Read the keyboard. Is the power key pressed?

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6.4 BOM List

TC8MRJDYMWBGHN

Location	TPV Part No.	Description
	019G6014 1	TIE FOR STRIP
	040G 581 26704	SHIPPING LABEL
	040G 581881 4A	WARRANTY LABEL
	041G 68508 A	CONTROL CARD
	044G6002689 1A	PAPER BOARD
	044G9003214	CORNER PAPER
	045G 77 3	PE PACKING
	050G 600 1 W	WHITE STRAP
	050G 600 2	HANDLE1
	050G 600 3	HANDLE2
	052G 1150 C	INSULATING TAPE
	052G 1186	SMALL TAPE
	052G 1207 A	ALUMINIUM TAPE
	052G6019 1	INSULATING TAPE
E08902	089G 728HAA 2D	SIGNAL CABLE
	089G179E30NA03	FFC CABLE
E08901	089G414A18N YH	POWER CORD(32E1818021)
	0M1G 130 5 47 CR3	SCREW
	0M1G 130 5120	SCREW
	0M1G1730 6120	SCREW,42-D020523
	0M1G1730 6120	SCREW,42-D020523
	705GQ834049	22" LCD BEZEL ASS'Y
	A33G0248ADP 1L0100	KEY PAD 1
	A33G0248ADP 2L0100	KEY PAD 2
	A33G0249BAAA1C0100	POWER BUTTON
	A33G0250ADQ 1C0100	LENS
	A34G0639ADPA1B0130	BEZEL(L22W-7BENQ)
	705GQ834050	22" LCD REAR COVER ASS'Y
	A33G0258ADPC1L0100	LOGO COVER
	A34G0640ADP 1B0130	REAR COVER22"
	705GQ834051	22" LCD STAND BASE ASS'Y
	0M1G1740 10120	SCREW 42A9940008
	0Q1G1840 10120	SCREW
	A33G0251ADP 1L0100	CABLE CLIP
	A33G0335ADP 1L0118	STAND-FRONT
	A34G0642ADP 1B0100	STAND-BACK

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	A37G0068 1	HINGE
E750	750GLMC0Z1312N	PANEL M220Z1-L03 C1 NB CMO
	A15G0364101	MAINFRAME
	A34G0641ADP 1B0133	BASE
	AM1G1740 10 47 CR3	SCREW
	CBPC8MRJBFQ1	MAIN BOARD
	040G 45762412B	CBPC LABEL
CN202	033G3802 6	WAFER
CN201	033G3802 9	WAFER 9P RIGHT ANELE PITCH
CN601	033G801930F CH JS	CONNECTOR
R507	061G152M339 64	CHIPR 3.3 OHM +-5% 2W
C405	067G 3151007KV	ELCAP 10UF M 50V 105℃ KINGNICHI
C202	067G 3151014KV	EC 105℃ CAP 100UF M 25V
C203	067G 3151014KV	EC 105℃ CAP 100UF M 25V
C505	067G 3152207KV	ELCAP 22UF M 50V 105℃ KING NICHI
C604	067G 3154704KV	ELCAP 47UF M 25V 105℃ KINGNICHI
CN301	088G 35315F H	D-SUB 15PIN
CN302	088G 35424F N	DVI 24PIN CONN F WITH SCREWS
X401	093G 22 45 H	24MHZ/30PF/49US
U402	056G 158501	AZ431AN-A-E1
U501	056G 562201	IC RTD2545LH-GR QFN-48
U201	056G 585 4A	AP1117E33LA
U401	056G1125191(WBQRWRCMNQ1)	IC RTD2122L-LF LQFP-48
Q401	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q301	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q202	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q602	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q205	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q204	057G 417 6	PMBS3906/PHILIPS-SMT(06)
Q502	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q501	057G 417 22 T	TRA KN2907AS -60V/-0.6A SOT-23
Q601	057G 763 1	A03401 SOT23 BY AOS(A1)
R429	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R302	061G0402000	RST CHIPR 0 OHM +-5% 1/16W
R325	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R324	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R318	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R319	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R320	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R321	061G0402100	RST CHIPR 10 OHM +-5% 1/16W

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R322	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R323	061G0402100	RST CHIPR 10 OHM +-5% 1/16W
R313	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R312	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R311	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R309	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R308	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R306	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R303	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R301	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R441	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R440	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R435	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R434	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R509	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R508	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R442	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R433	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R432	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R430	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R317	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R315	061G0402101	RST CHIPR 100 OHM +-5% 1/16W
R402	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R424	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R453	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R503	061G0402102	RST CHIPR 1 KOHM +-5% 1/16W
R210	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R213	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R316	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R404	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R601	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R436	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R416	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R425	061G0402103	RST CHIPR 10 KOHM +-5% 1/16W
R326	061G0402104	RST CHIPR 100 KOHM +-5% 1/16W
R207	061G0402121	RST CHIP 120R 1/16W 5%
R208	061G0402121	RST CHIP 120R 1/16W 5%
R201	061G0402201	RST CHIP 200R 1/16W 5%
R428	061G0402220	RST CHIPR 22 OHM +-5% 1/16W
R426	061G0402220	RST CHIPR 22 OHM +-5% 1/16W

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R305	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R304	061G0402222	RST CHIPR 2.2 KOHM +-5% 1/16W
R401	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W
R437	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W
R438	061G0402390 1F	RST CHIPR 3.9KOHM +-1% 1/16W
R403	061G0402392	RST CHIP 3.9K 1/16W 5%
R202	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R327	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R411	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R412	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R413	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R414	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R443	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R444	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R445	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R451	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R605	061G0402472	RST CHIPR 4.7 KOHM +-5% 1/16W
R439	061G0402682	RST CHIP 6K8 1/16W 5%
R431	061G0402682	RST CHIP 6K8 1/16W 5%
R415	061G0402682	RST CHIP 6K8 1/16W 5%
R604	061G0402683	RST CHIP 68K 1/16W 5%
R307	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R310	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R314	061G0402750	RST CHIPR 75 OHM +-5% 1/16W
R602	061G0805331	RST CHIPR 330 OHM +-5% 1/8W
C401	065G0402100 31	CAP 0402 10PF J 50V NPO
C411	065G0402100 31	CAP 0402 10PF J 50V NPO
C602	065G0402103 22	CHIP 0.01UF 25V X7R
C506	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C503	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C502	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C410	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C406	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C403	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C317	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C316	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C315	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C210	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C209	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C206	065G0402104 15	MLCC 0402 0.1UF K 16V X5R

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C205	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C204	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C201	065G0402104 15	MLCC 0402 0.1UF K 16V X5R
C412	065G0402105 A5	CAP 0402 1UF K 10V X5R
C501	065G0402105 A5	CAP 0402 1UF K 10V X5R
C507	065G0402105 A5	CAP 0402 1UF K 10V X5R
C603	065G0402224 A5	MLCC 0402 CAP 0.22UF K 10V X5R
C302	065G0402330 31	CHIP CAP 0402 33PF J 50V NPO
C303	065G0402330 31	CHIP CAP 0402 33PF J 50V NPO
C301	065G0402473 12	CHIP 0.047UF 16V X7R
C304	065G0402473 12	CHIP 0.047UF 16V X7R
C306	065G0402473 12	CHIP 0.047UF 16V X7R
C307	065G0402473 12	CHIP 0.047UF 16V X7R
C309	065G0402473 12	CHIP 0.047UF 16V X7R
C311	065G0402473 12	CHIP 0.047UF 16V X7R
C305	065G0402509 31	CHIP 5PF 50V NPO
C308	065G0402509 31	CHIP 5PF 50V NPO
C310	065G0402509 31	CHIP 5PF 50V NPO
FB601	071G 56K121 M	CHIP BEAD
FB503	071G 56K121 M	CHIP BEAD
FB502	071G 56K121 M	CHIP BEAD
FB201	071G 56K121 M	CHIP BEAD
FB303	071G 59K190 B	19 OHM BEAD
FB302	071G 59K190 B	19 OHM BEAD
FB301	071G 59K190 B	19 OHM BEAD
FB501	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
FB401	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
FB305	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
FB304	071G1608151 5Y	CHIP BEAD 1608 150 OHM±25%
D402	093G 64 42 PP	BAV70 SOT-23
D301	093G 6433S	DIODE BAV99 SEMTECH
D302	093G 6433S	DIODE BAV99 SEMTECH
D303	093G 6433S	DIODE BAV99 SEMTECH
D304	093G 6433S	DIODE BAV99 SEMTECH
D305	093G 6433S	DIODE BAV99 SEMTECH
D306	093G 6433S	DIODE BAV99 SEMTECH
D307	093G 6433S	DIODE BAV99 SEMTECH
D308	093G 6433S	DIODE BAV99 SEMTECH
D309	093G 6433S	DIODE BAV99 SEMTECH
D311	093G 6433S	DIODE BAV99 SEMTECH

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D314	093G 6433S	DIODE BAV99 SEMTECH
ZD307	093G 39S 34 T	UDZSNP5.6B ROHM
ZD305	093G 39S 34 T	UDZSNP5.6B ROHM
ZD304	093G 39S 34 T	UDZSNP5.6B ROHM
ZD303	093G 39S 34 T	UDZSNP5.6B ROHM
ZD302	093G 39S 34 T	UDZSNP5.6B ROHM
ZD301	093G 39S 34 T	UDZSNP5.6B ROHM
D315	093G 39S 34 T	UDZSNP5.6B ROHM
D313	093G 39S 34 T	UDZSNP5.6B ROHM
D312	093G 39S 34 T	UDZSNP5.6B ROHM
D310	093G 39S 34 T	UDZSNP5.6B ROHM
D403	093G 64S522SEM	LL4148
	715G2507 1B K	MAIN BOARD PCB
R603	061G0402473	RST CHIPR 47 KOHM +-5% 1/16W
	KEPC7QB4	KEY BOARD
SW005	077G 602 1 CJ	TACT SWITCH
SW006	077G 602 1 CJ	TACT SWITCH
SW002	077G 602 1 CJ	TACT SWITCH
SW004	077G 602 1 CJ	TACT SWITCH
SW001	077G 602 1 CJ	TACT SWITCH
SW003	077G 603 3 TO	TACT SWITCH TS-03-BS
LED001	081G 10 12 GP	LED GP32052C/R008-ZY-30
GND1	095G 900690 D	WIRE HARNESS 100MM
CN001	095G8014 6X660	HARNESS 6P-6P 160MM
R004	061G0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W
R003	061G0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W
R006	061G0603180 1F	RST CHIPR 1.8 KOHM +-1% 1/10W
R007	061G0603300 1F	RST CHIPR 3 KOHM +-1% 1/10W
R002	061G0603300 1F	RST CHIPR 3 KOHM +-1% 1/10W
R005	061G0603300 1F	RST CHIPR 3 KOHM +-1% 1/10W
JR001	061G0805000	RST CHIPR 0 OHM +-5% 1/8W
C007	065G0603104 32	CHIP 0.1UF 50V X7R
C008	065G0603104 32	CHIP 0.1UF 50V X7R
C009	065G0603104 32	CHIP 0.1UF 50V X7R
C010	065G0603104 32	CHIP 0.1UF 50V X7R
C011	065G0603104 32	CHIP 0.1UF 50V X7R
C006	065G0603104 32	CHIP 0.1UF 50V X7R
	715G2695 2	KEY BOARD PCB
	PWPC7C42MAA6	POWER BOARD
CN801	033G8021 2E U	INVERT CONNECTOR

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CN802	033G8021 2E U	INVERT CONNECTOR
CN803	033G8021 2E U	INVERT CONNECTOR
CN804	033G8021 2E U	INVERT CONNECTOR
	040G 45762412B	CBPC LABEL
	051G 6 4503	GLUE_RTV
IC903	056G 139 3A	IC PC123Y22FZ0F
C903	063G 10747410V	0.47UF 275VAC ARCO
C840	065G 3J3096ET	3PF,J,3KV,Z5P
C842	065G 3J3096ET	3PF,J,3KV,Z5P
C834	065G 6J1506ET	15PF 5% SL 6KV
C841	065G 6J1506ET	15PF 5% SL 6KV
C902	065G306M1022BP	1000PF Y1.CAP
C901	065G306M1022BP	1000PF Y1.CAP
C921	065G306M4722BP	4700PF +-20% 400VAC
C918	067G215B6814RV	CAP 105℃ 680UF M 25V 10*20
C917	067G215B6814RV	CAP 105℃ 680UF M 25V 10*20
C815	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C811	067G215D4714KV	E.C 105℃ CAP 470UF M 25V ED SERIES
C939	067G215S1023KV	105℃ 1000UF M 16V
C905	067G315Z12115K	CAP 105℃ 120UF M 450V
L802	073G 174 63DNA	LINE FILTER BY DARFON LK.3711D.101
L801	073G 174 63DNA	LINE FILTER BY DARFON LK.3711D.101
L903	073G 253191 L	CHOKE COIL 1.1UH CC-007802
L904	073G 253191 L	CHOKE COIL 1.1UH CC-007802
L901	073L 174 40 HG	GBQM4.778.391
L902	073L 174 55 LG GP	LINE FILTER BY LITAI
T901	080GL17T 42 N	X'FMR 510UH YUVA-769
T802	080GL20T 35 YS	X'FMR 40UH YS04170191
T801	080GL20T 35 YS	X'FMR 40UH YS04170191
CN901	087G 501 32 S	AC SOCKET
BD901	093G 50460 28	BRIDGE DIODE KBP208G LITEON
CN902	095G8014 9D 57	HARNESS 9P-9P 210MM
	705G 560 61 04	NR901 ASS'Y
NR901	061G 58080 WT	8 OHM NCT
	705GQ793062	D905 ASS'Y
	051G 200 1	OIL FOR DISAPPEAR
	090G6084 1	HEAT SINK
D905	093G 60278	DIODE SP1060 ITO-220 SECOS
	0M1G1730 8120	SCREW
	705GQ793063	D906 ASS'Y

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	051G 200 1	OIL FOR DISAPPEAR
D906	093G 60267	SP10100
	0M1G1730 8120	SCREW
	Q90G6274 2	HEAT SINK
	705GQ857006	Q901 ASS'Y
	051G 200 1	OIL FOR DISAPPEAR
Q901	057G 724 11	STP9NK65ZFP
	0M1G1730 8120	SCREW
	Q90G6263 3	HEAT SINK
IC901	056G 379 71	IC TEA1530AT/N2 SO-8 NXP
IC801	056G 608 10	IC OZ9938GN-B SOIC-16
Q801	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q802	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q803	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q903	057G 417 4	PMBS3904/PHILIPS-SMT(04)
Q805	057G 763 14	AM9945N
Q806	057G 763 14	AM9945N
R943	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R917	061G0805102	RST CHIPR 1KOHM +-5% 1/8W
R836	061G0805102 Y	RST CHIPR 1KOHM +-5% 1/8W YAGEO
R843	061G0805102 Y	RST CHIPR 1KOHM +-5% 1/8W YAGEO
R911	061G0805102 Y	RST CHIPR 1KOHM +-5% 1/8W YAGEO
R942	061G0805102 Y	RST CHIPR 1KOHM +-5% 1/8W YAGEO
R925	061G0805102 Y	RST CHIPR 1KOHM +-5% 1/8W YAGEO
R808	061G0805103	10 KOHM 1/10W
R938	061G0805103	10 KOHM 1/10W
R812	061G0805103	10 KOHM 1/10W
R806	061G0805103	10 KOHM 1/10W
R803	061G0805103	10 KOHM 1/10W
R802	061G0805103	10 KOHM 1/10W
R801	061G0805103	10 KOHM 1/10W
R926	061G0805103	10 KOHM 1/10W
R913	061G0805103	10 KOHM 1/10W
R854	061G0805104	RST CHIP 100K 1/8W 5%
R855	061G0805104	RST CHIP 100K 1/8W 5%
R810	061G0805104	RST CHIP 100K 1/8W 5%
R816	061G0805105 Y	RST CHIPR 1MOHM +-5% 1/8W YAGEO
R813	061G0805105 Y	RST CHIPR 1MOHM +-5% 1/8W YAGEO
R924	061G0805152 Y	RST CHIPR 1.5KOHM +-5% 1/8W YAGEO
R912	061G0805223	RST CHIPR 22 KOHM +-5% 1/8W

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R915	061G0805224	RST CHIPR 220 KOHM +-5% 1/8W
R930	061G08052431FY	RST CHIPR 2.43KOHM +-1% 1/8W YAGEO
R834	061G08053001FF	RST CHIPR 3KOHM +-1% 1/8W FENGHUA
R852	061G0805303	RST CHIPR 30 KOHM +-5% 1/8W
R827	061G0805303	RST CHIPR 30 KOHM +-5% 1/8W
R804	061G0805304	RST CHIPR 300 KOHM +-5% 1/8W
R826	061G0805330 0F	RST CHIPR 330 OHM +-1% 1/8W
R940	061G08053302FY	RST CHIPR 33KOHM +-1% 1/8W YAGEO
R817	061G0805360 2F	RST CHIPR 36 KOHM +-1% 1/8W
R841	061G08053600FY	RST CHIPR 360 OHM +-1% 1/8W YAGEO
R927	061G08053601FY	RST CHIPR 3.6KOHM +-1% 1/8W YAGEO
C808	061G0805394	RST CHIPR 390 KOHM +-5% 1/8W
R916	061G0805472	RST CHIPR 4.7 KOHM +-5% 1/8W
R831	061G0805622	RST CHIPR 6.2 KOHM +-5% 1/8W
R853	061G0805622	RST CHIPR 6.2 KOHM +-5% 1/8W
R814	061G0805623	RST CHIPR 62 KOHM +-5% 1/8W
R824	061G0805751 Y	RST CHIPR 750 OHM +-5% 1/8W YAGEO
R850	061G0805751 Y	RST CHIPR 750 OHM +-5% 1/8W YAGEO
R931	061G0805822	RST CHIPR 8.2 KOHM +-5% 1/8W
JR803	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR802	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
JR801	061G1206000	RST CHIPR 0 OHM +-5% 1/4W
F902	061G1206000 4	RST CHIPR 0 OHM +-5% 1/4W
R837	061G1206100	RST CHIP 10R 1/4W 5%
R842	061G1206100	RST CHIP 10R 1/4W 5%
R909	061G1206100	RST CHIP 10R 1/4W 5%
R910	061G1206100	RST CHIP 10R 1/4W 5%
R918	061G1206101	100 1206
R919	061G1206101	100 1206
R920	061G1206101	100 1206
R935	061G1206101	100 1206
R961	061G1206101	100 1206
R962	061G1206101	100 1206
R946	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R945	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R944	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R941	061G1206102	RST CHIPR 1 KOHM +-5% 1/4W
R828	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R825	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R819	061G1206150	RST CHIPR 15 OHM +-5% 1/4W

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R829	061G1206150	RST CHIPR 15 OHM +-5% 1/4W
R807	061G1206220	RST CHIPR 22 OHM +-5% 1/4W
R805	061G1206471	470 1206
R904	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R932	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R933	061G1206472	RST CHIPR 4.7 KOHM +-5% 1/4W
R901	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R902	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R903	061G1206684	RST CHIPR 680 KOHM +-5% 1/4W
R823	065G0805101 32	100PF +-10% 50V X7R
R830	065G0805101 32	100PF +-10% 50V X7R
C932	065G0805102 32	CHIP 1000P 50VX7R 0805
C807	065G0805103 32	10NF/50V/0805/X7R
C805	065G0805103 32	10NF/50V/0805/X7R
C924	065G0805103 32	10NF/50V/0805/X7R
C931	065G0805104 32	CHIP 0.1U 50V X7R
C930	065G0805104 32	CHIP 0.1U 50V X7R
C916	065G0805104 32	CHIP 0.1U 50V X7R
C907	065G0805104 32	CHIP 0.1U 50V X7R
C829	065G0805104 32	CHIP 0.1U 50V X7R
C828	065G0805104 32	CHIP 0.1U 50V X7R
C801	065G0805104 32	CHIP 0.1U 50V X7R
C804	065G0805105 12	1UF +-10% 6V X7R
C806	065G0805105 22	CHIP 1UF 25V X7R 0805
C802	065G0805105 22	CHIP 1UF 25V X7R 0805
C928	065G0805122 31	CHIP CAP 0805 1200PF J 50V NPO
C813	065G0805152 31	1.5NF/50V
C823	065G0805152 31	1.5NF/50V
C911	065G0805224 22	CAIP CAP 0.22 UF 25V X7R
C814	065G0805224 32	0.22UF,K,50V,X7R
C909	065G0805224 32	0.22UF,K,50V,X7R
C821	065G0805471 32	470PF/50V/0805/X7R
C820	065G0805471 32	470PF/50V/0805/X7R
C810	065G080547131G	CHIP 0805 470PF G 50V NPO
C809	065G0805473 32	CHIP 0.047UF 50V X7R
C819	065G0805473 32	CHIP 0.047UF 50V X7R
C929	065G1206102 72	CHIP 1000PF 500V X7R
C912	065G1206102 72	CHIP 1000PF 500V X7R
D802	093G 64 33	DIO SIG SM BAV99 (PHSE)R
D804	093G 64 33	DIO SIG SM BAV99 (PHSE)R

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D916	093G 6432S	IN4148W
D801	093G 6432S	IN4148W
D806	093G 6432S	IN4148W
D807	093G 6432S	IN4148W
D808	093G 6432S	IN4148W
D903	093G 6432S	IN4148W
D915	093G 6432S	IN4148W
ZD801	093G 39S 24 T	RLZ 5.6B LLDS
ZD922	093G 39S 25 T	RLZ5.1B LLDS
ZD921	093G 39S 40 T	RLZ 13B LLDS
ZD902	093G 39S 40 T	RLZ 13B LLDS
CN901	006G 31500	EYELET
IC904	056G 158 12	KIA431A-AT/P TO-92
R908	061G152M10452T	RST MOFR 100KOHM +-5% 2WS
R914	061G152M27852T	RST MOFR 0.27 OHM +-5% 2WS
R832	061G212Y625 KT	MGFR 6.2MOHM +-5% 1/2W
R822	061G212Y625 KT	MGFR 6.2MOHM +-5% 1/2W
C906	065G 2K152 1T GP	CERAMIC CAP
C908	067G 2152207NT	KY50VB22M-TP5 5*11
C915	067G 2154713KT	470UF 16V
FB902	071G 55 29	FERRITE BEAD
FB901	071G 55 29	FERRITE BEAD
F903	084G 56 4 B	FUSE 4A 250V
F901	084G 56 4 B	FUSE 4A 250V
D901	093G 6038P52T	PS102R
D900	093G1100 1152T	DIODE PR1007R 1A/1000V DO-41
J807	095T 90 23	JUMP WIRE
J806	095T 90 23	JUMP WIRE
J801	095T 90 23	JUMP WIRE
J802	095T 90 23	JUMP WIRE
J804	095T 90 23	JUMP WIRE
J805	095T 90 23	JUMP WIRE
J808	095T 90 23	JUMP WIRE
J809	095T 90 23	JUMP WIRE
J903	095T 90 23	JUMP WIRE
J902	095T 90 23	JUMP WIRE
J901	095T 90 23	JUMP WIRE
J816	095T 90 23	JUMP WIRE
J904	095T 90 23	JUMP WIRE
J905	095T 90 23	JUMP WIRE

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J906	095T 90 23	JUMP WIRE
J815	095T 90 23	JUMP WIRE
J814	095T 90 23	JUMP WIRE
J812	095T 90 23	JUMP WIRE
J811	095T 90 23	JUMP WIRE
J810	095T 90 23	JUMP WIRE
	715G2639 C 2	POWER BOARD PCB
HS4	Q85G0064 1	EMI-BKT
	Q07G 8 3103	COMPOUND PALLET
	Q23G3178881 2A	LOGO FOR 22
	Q40G 22N881 1A	RATING LABEL
	Q40G0001624 4A	PALLET LABEL
	Q40G0002881 1A	WARRANTY LABEL
	Q40G0002881 2A	TCO03 LABEL
	Q44G6002CP142A	PAPER CAP
	Q44GC049101	EPS
	Q44GC049201	EPS
	Q44GC049881 1A	22 LCD BENQ CARTON
	Q45G 88606 R	PE BAG FOR BASE
	Q45G 88609 87	EPE COVER FOR MONITOR
	Q52G 1185 80	BIG TAPE FOR BENQ CARTON
	Q41G7800881 2A	(4J.06L03.001)CERTIFICATE
	Q41G780088117A	(4J.06K02.003)WARRANTY CARD FOR CHINA
	Q41G780088119A	QSG(4J.0H401.001)
	Q45G 76 28A35	PE BAG
	Q70G2201881 1A	CD MANUAL
	040G 58162435A	P/N LABEL
	Q40G0001881 1A	CARTON LABEL
	Q40G0001881 4A	S/N LABEL
	Q40G0002881 3A	LABEL FOR CARTON

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